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No. 4,293 83rd YEAR

THURSDAY, OCTOBER 5, 1961

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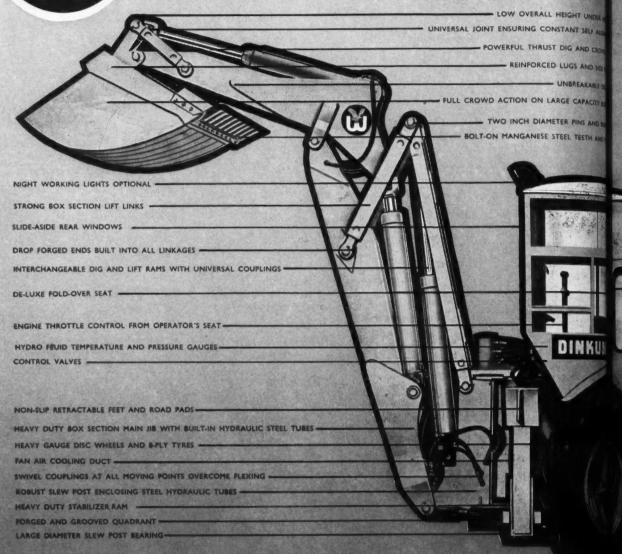
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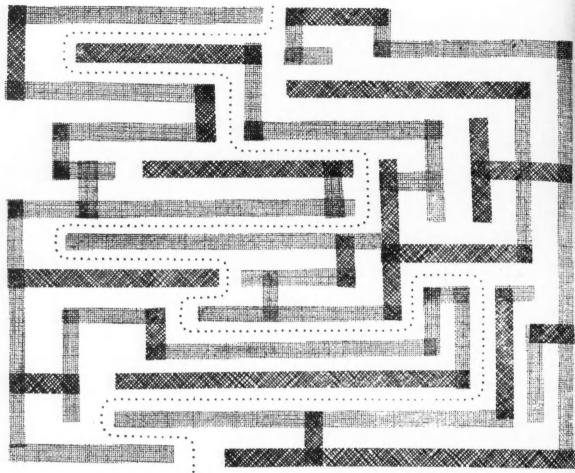
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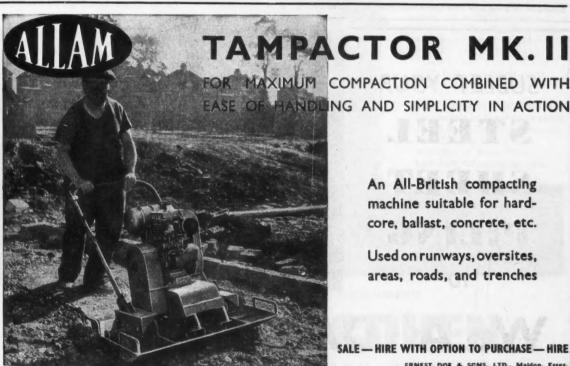
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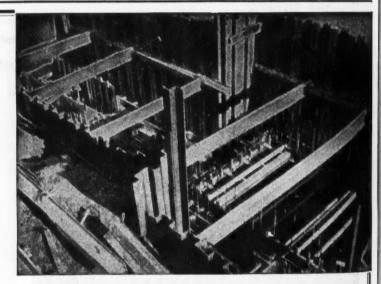
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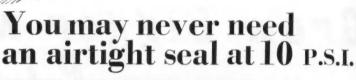
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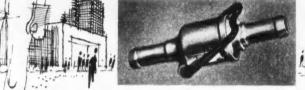
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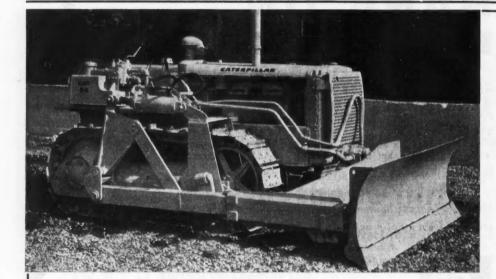
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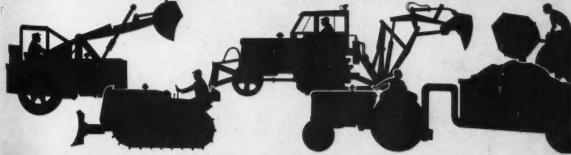
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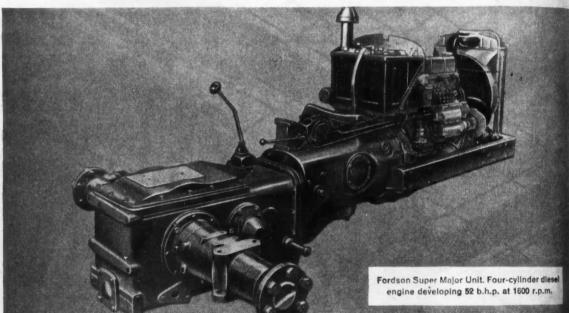
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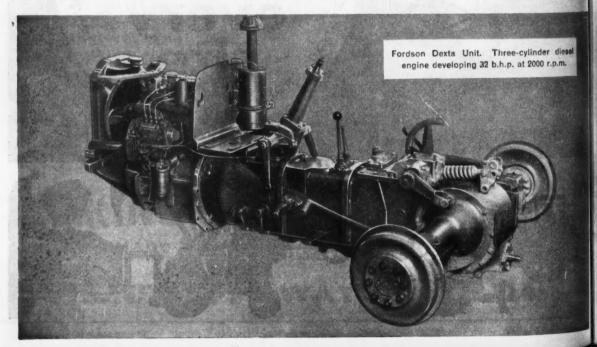






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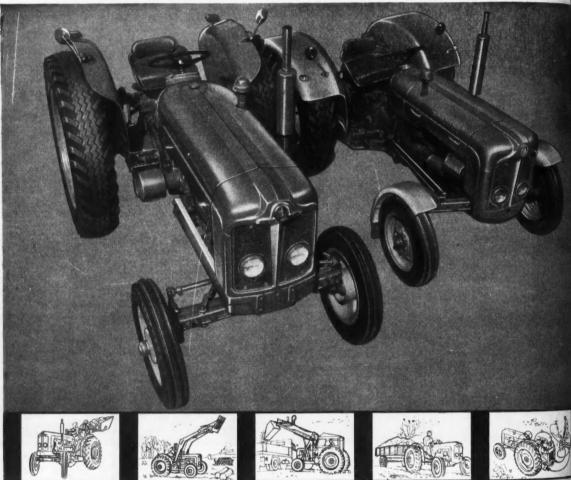
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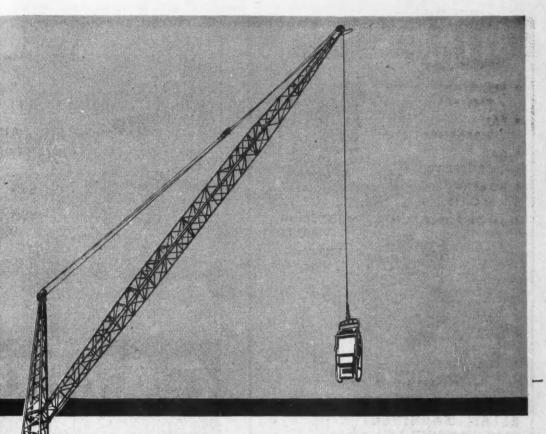
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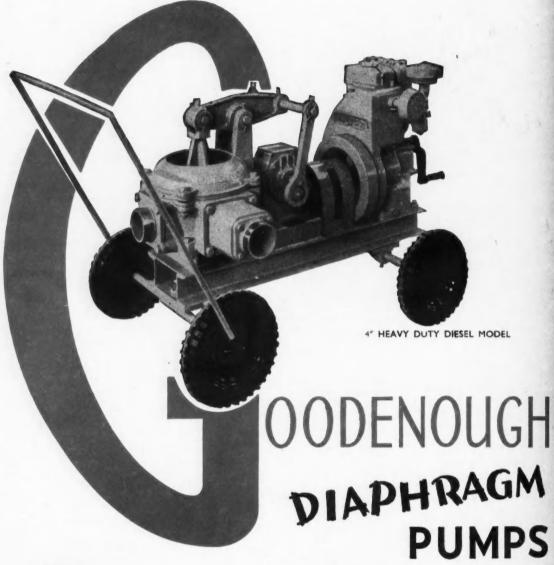
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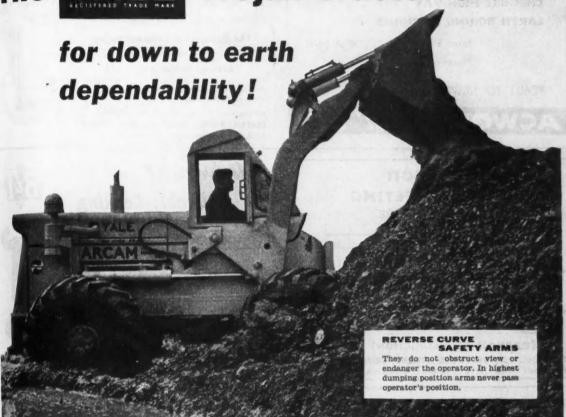
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Disc Brakes were first fitted on a Benford Dumper, the 2-ton 4-wheel-drive model, in the early Autumn of 1960 and have been in use ever since. They have proved very satisfactory.

In the early part of 1961 a further twenty-four Dumpers of various sizes fitted with Disc Brakes were put into service, some of them on new motorway construction. The brake equipment on these Dumpers has also proved to be equally satisfactory.

The advantages of the Benford Disc Brake system are as follows:

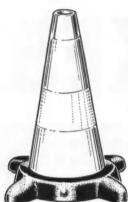
- (I) The Disc Brakes stop the Dumper, loaded or empty, even when they are wet or covered in mud.
- (2) Wear on the hydraulically-operated brake pads is automatically compensated and consequently no maintenance is required.
- (3) A set of disc brake pads can be renewed in ten to fifteen minutes.
- (4) Under comparable working conditions Disc Brake Pads are proving to have a longer working life and are cheaper to replace.
- (5) There are two completely independent braking systems—one to the front wheels foot-pedal operated, the other to the transmission which is hand operated.

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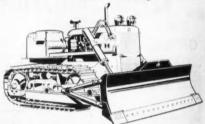
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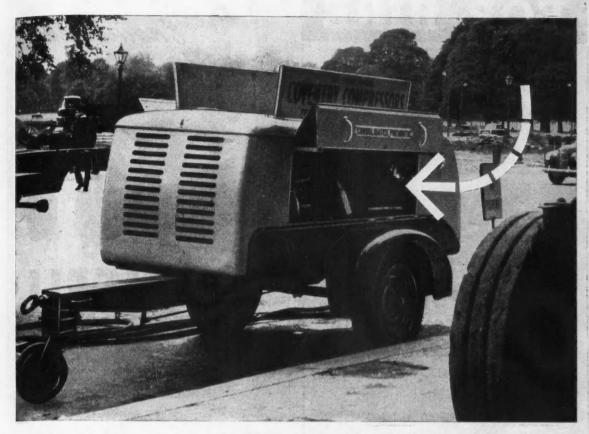
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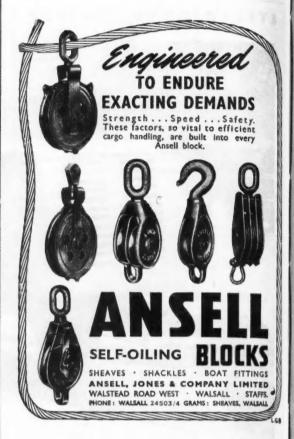
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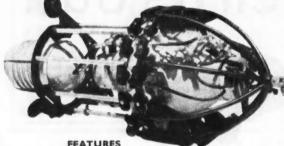
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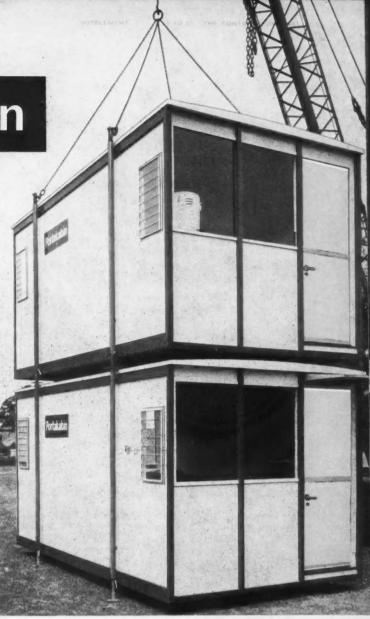
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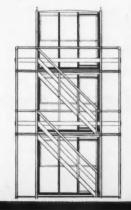
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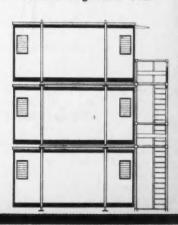
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Can be stacked up to 3 high on confined sites.

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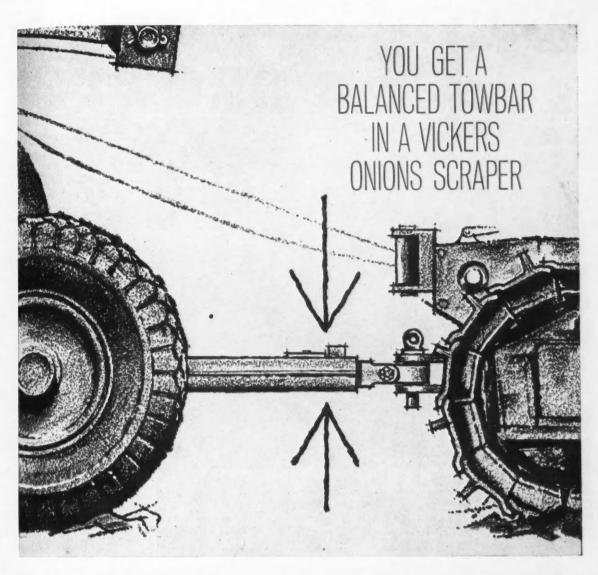
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Vickers Onions model 4-6 Scraper. Note the horizontal line of the drawbar continues through the hitchblock showing minimum downward load. The Cable Control Unit is a Vickers Onions model 12, ame of the range of Cable Control Units specially designed to match up with your tractor.

This allows peak performance from the tractor at all times, better output and profits.

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Remember—the Vickers Onions Scraper Range is the largest in the world and includes a Scraper to match most crawler tractors.

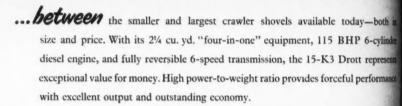


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TABLE SHOWING COMPARATIVE BUCKET CAPACITIES AND ENGINE H.P.

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BUCKET CAPACITY (cu. yds.)	1	11/4	11/4	214	1
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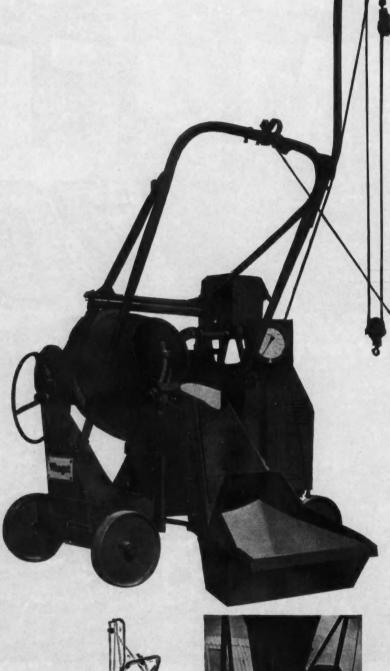
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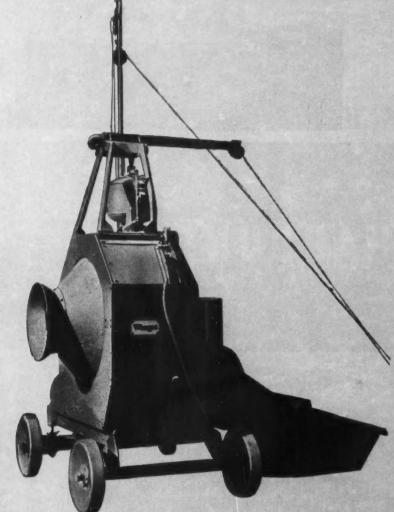
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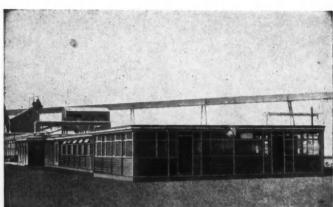
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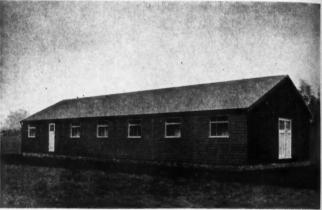
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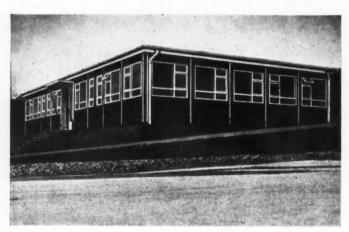








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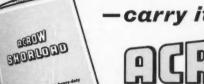
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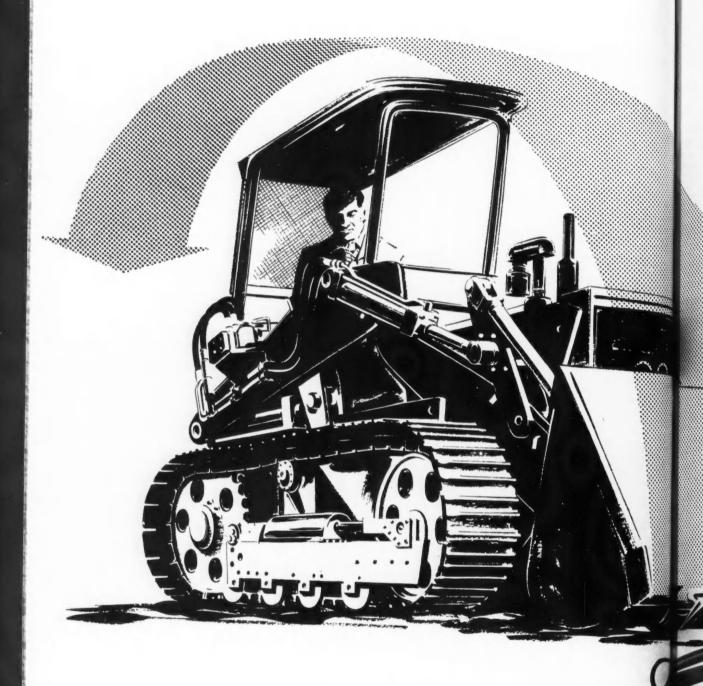
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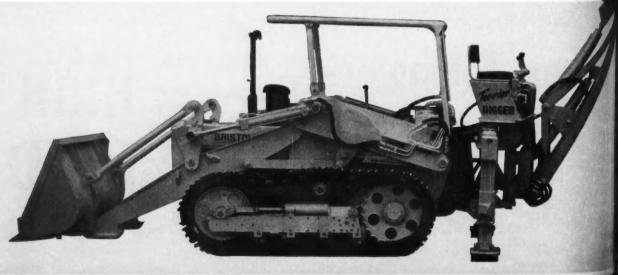
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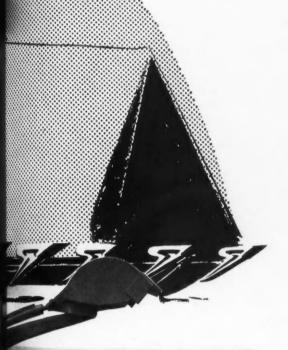


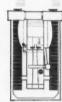


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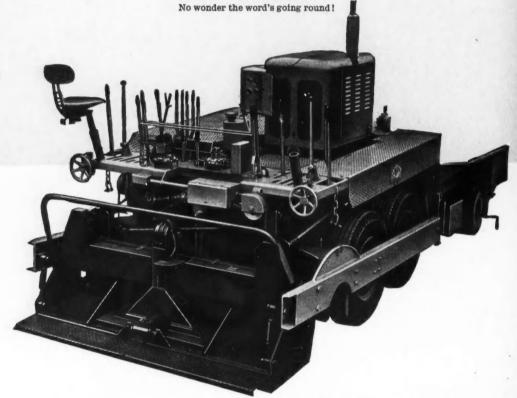
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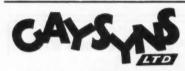
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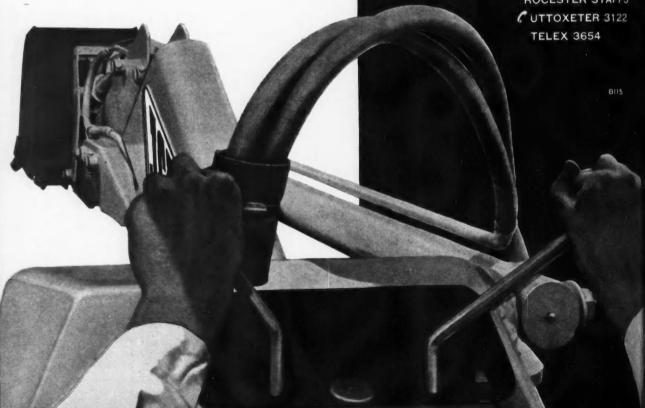
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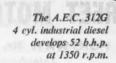


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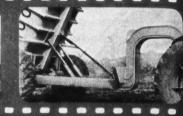
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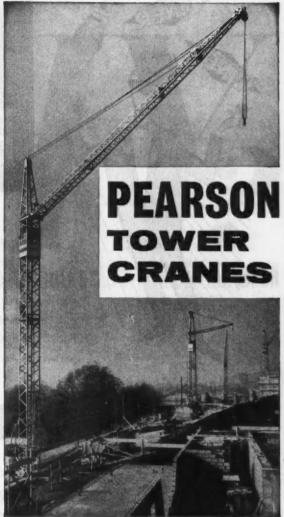


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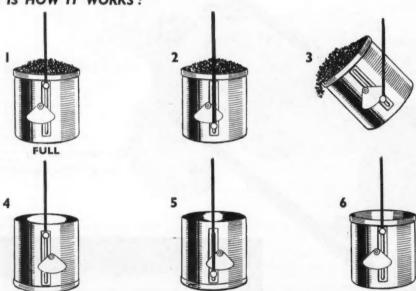


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This Vibrating Plate Compactor travels automatically in either direction. There is no pushing, no pulling and no turning of the machine: the operator simply moves the handles from one side of the machine to the other and the direction of travel is instantly reversed. The machine can, consequently, work not only close alongside but also right up to walls and columns. The blows are heavy, the travel fast and the compaction excellent. The illustration shows the Model VS.O Compactor fitted with a 15" wide plate for the back-filling of trenches and foundations but the machine can also be supplied with a 36" wide plate for general compaction work and the two plates can be interchanged in a matter of minutes on the site. The Compactor is also available for hire and we shall be pleased to arrange a demonstration on your site without obligation.

PLATE COMPACTORS OF ALL SIZES ARE AVAILABLE FOR HIRE

COMPACTORS ENGINEERING LTD.

LOCKFIELD AVENUE, BRIMSDOWN, ENFIELD, MIDDX. TELEPHONE: HOWARD 4063-5

from VILLIERS

Long-life lightweight engines for light powered machinery

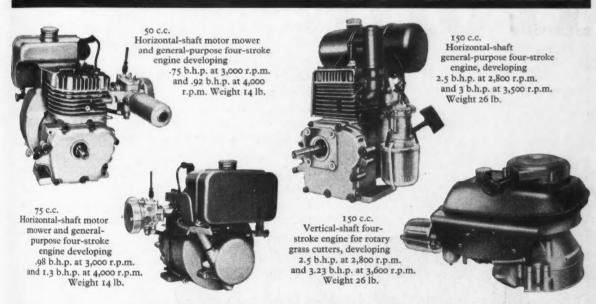
From one of the best equipped engine factories in the world comes an entirely new range of All-British light-alloy four-stroke engines for horticultural, agricultural and industrial purposes.

Villiers, a name for 60 years synonymous with quality and dependability, have designed these new engines to bring low-cost power into an ever-wider sphere of operations. Light in weight and low in price, these engines embody all the design features essential to long life and reliability and prototypes of each model of the range have

proved themselves in 1,000-hour running tests.

Their availability—they can be had with either the Villiers or JAP nameplate—means you can now INSIST ON AN ALL-BRITISH LIGHTWEIGHT 4-STROKE ENGINE for your motor mower, rotary grass cutter, cultivator, etc.—a Villiers Group engine, quality built, easy to start, economical to run and simple to service.

And every Villiers Group engine is backed by a nationwide network of 85 Villiers/JAP Approved Service Depots and more than 2,000 genuine spares stockists.



THE NEW VILLIERS JAP RANGE OF LIGHTWEIGHT ENGINES

Insist on British and invest in Villiers



all-British engines

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By hiring contractors' equipment from Sykes, you have at your command a far wider range of plant than you could possibly maintain. Thus you are able to take on bigger contracts without locking up capital in new and expensive machinery.

Sykes supply on hire:

PUMPS of all types and sizes, including the famous Univac self-priming unchokeable centrifugal pumps in sizes from 2" to 12".

PILE DRIVERS from 20 ft-90 ft high, using monkeys up to 6 tons.

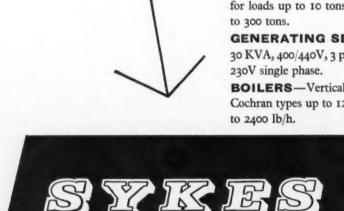
WINCHES in types with single barrel, double equal barrel, and double barrel with high and low speed barrels. For dealing with weights up to 12 tons on single rope.

DEWATERING PLANT using the efficient Jetwell equipment, suitable for operation by your own personnel after brief instructions.

LIFTING TACKLE & JACKS Hand Crabs, Pulley Blocks and wire ropes for loads up to 40 tons, Chain Blocks for loads up to 10 tons and Jacks of all types for loads up

GENERATING SETS driven by diesel engine, 26 and 30 KVA, 400/440V, 3 phase, 50 cycle, 4-wire, also providing

BOILERS-Vertical Crosstube, Spencer Hopwood and Cochran types up to 120 lb/in2 with steaming capacities up



53b Southwark Street, London, S.E.I

Telephone: HOP 5231 (8 lines) Telegrams: Tripulse, Sedist, London

ROAD GANG'S BEST FRIEND IS A FORD **ENGINE**

Road-building equipment powered by a Ford Industrial engine starts with two major advantages - the heart of it is a tough, hardworking, reliable power-unit built to the most modern designs, and behind it is the famous Ford Service Organisation - a worldwide chain of factory-trained engineers with stocks of genuine Ford parts.

Diggers, dumpers, cranes, compressors, road finishers, rollers, etc-all are available with Ford power-units, petrol or diesel.

Please send the coupon below for details of the Ford-powered equipment you are interested in.

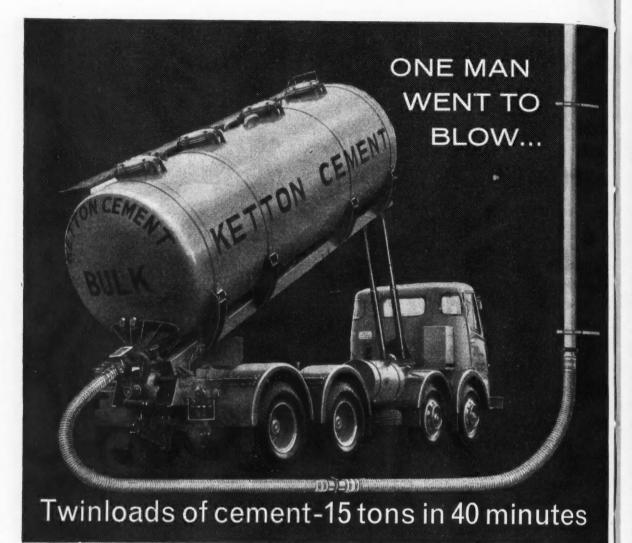




Type or class of equipment

ADDRESS

SUPPLEMENT



ONE MAN AND

- Carries any 2 bulk materials
- Driver operates dual-discharge valve
- Two separate deliveries possible
- Offloading at separate sites
- Cuts total delivery mileage
- Initiates more profitable schedules
- Increases net fleet earnings Meet the New Twinload Pneumajector 2 Separate compartments each with 71-ton capacity

Two 7½-ton loads are carried in the 15-ton capacity dual compartment 529 cu. ft. 19'6" x 6' aluminium alloy cylinder. This can be mounted on any suitable tipping chassis. Flexible delivery hose is carried in light alloy boxes mounted on near side of chassis. The driver controls independent twinload discharge from the rear of the Pneumajector. Each load is gravity fed to a mixing chamber, where it meets the compressed air stream leading to the discharge manifold. During unloading the cylinder is progressively tipped to empty it completely. Discharge rate varies according to material and distance to storage point. to material and distance to storage point.

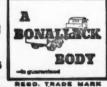
The blower, operating at 10 p.s.i., is mounted on the chassis frame. Cylinders for this model are available in aluminium alloy, steel α stainless steel.

The ECONOMICAL, HIGHLY EFFICIENT TWINLOAD PNEUMAJECTOR HANDLES PROFITABLE PAYLOADS.

Sugar, salt, flour, grain, fertilisers, lime, foundry sand, fly ash and many others.

Write or phone for technical brochure of request a representative to call and discuss the Pneumajector with you,

BONALLACK & SONS LTD, NEVENDON WORKS BASILDON, ESSEX. TEL 20481 (Ten Lines)



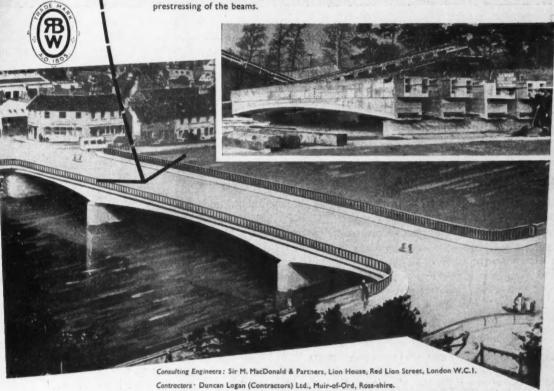
RYLANDS BROTHERS LTD., WARRINGTON, LANCASHIRE.

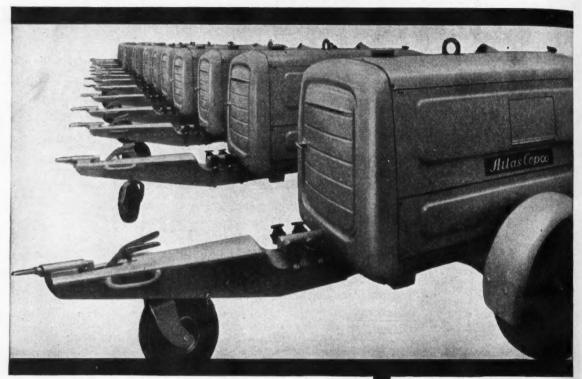
For the Royal
Burgh of Inverness
a modern new bridge of ...

RYLANDS | Compared to the content of the content o

Replacement of the 104 years old suspension bridge over the River Ness has been necessitated by the prolific growth of motor traffic.

The new 245 ft. long, 3 span bridge is designed to carry the heaviest traffic loads laid down by the Ministry of Transport, and to achieve this end Rylands 0.276 inch diameter wires in made-up cables of 12 wires each cable are employed for the





With Atlas Copco portable compressors your only problem is to decide which of the range is best suited to your particular needs. You'll have no other worries because these compressors have a proven record of reliability and give you a *guaranteed* air delivery to BSS 726 and 1571.

LOOK AT THESE ADVANTAGES

Unequalled power to weight ratio simplify transportation and manhandling.

Simple design—local mechanics anywhere can service these machines. Uniform basic design—interchangeable spare parts cut maintenance costs and speed up servicing.

'Fuelmiser' economy—unique Atlas Copco feature gives smooth running and maximum power from every gallon of fuel.

For full information send for leaflets on the four types of Atlas Copco portable compressors ranging from the VT3 developing 110 c.f.m. to the VT6 developing 315 c.f.m.

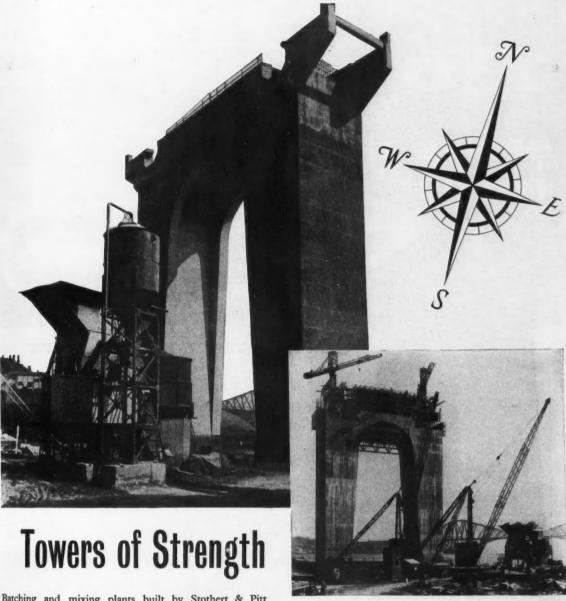
ATLAS COPCO (GREAT BRITAIN) LIMITED

Maylands Avenue, Hemel Hempstead, Herts. Telephone: Boxmoor 6040 Sales and service depots at: LONDON · BRISTOL · CARDIFF · LICHFIELD · LEEDS MANCHESTER · NEWCASTLE · GLASGOW · BELFAST · DUBLIN





puts compressed air to work for the world



Consulting Engineers: Mott, Hay & Anderson and Freeman, Fox & Partners
Contractors for the towers, sub-structure and foundations:
John Howard & Co. Ltd.

Batching and mixing plants built by Stothert & Pitt were installed on both the north and south sides of the Firth of Forth where they produced concrete for use in the construction of the towers for the new bridge across the Firth.

The selection of these plants for this important project

The selection of these plants for this important project is a further tribute to the efficiency of S & P contractors' plant, which is used on road and bridge construction schemes all over the world. Overseas contractors are particularly welcome to make use of our unrivalled engineering knowledge.

The top illustration shows the scene on the north side of the Firth with a 28BP Batching and Mixing Plant producing concrete for one of the giant supporting towers. The lower illustration shows a similar plant in use on the south side of the Firth. Constructed in sections for easy transport, the plants can be erected by crane in 1-2 days and dismantled even quicker.



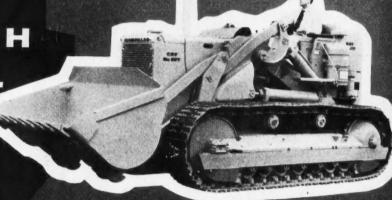
STOTHERT & PITT LIMITED ENGINEERS BATH ENGLAND

London Office: 38 Victoria Street, London S.W.1

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CATERPILLAR 977

Higher Power = more speed = Less cost. Hire 1961 Machines for this year's work and you will get value for hire money.

Only SPECIALIST hire services can keep continually up to date and we specialise in Traxcavators.

NOW AVAILABLE

CAT 977 'H' 2½ cu. yds.

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Also available on hire:

EXCAVATORS: 10RB, 19RB, 22RB

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MOBILE CRANES: COLES 5 TON

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CATERPILLAR D4 CATERPILLAR D6
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TRENCHMASTER'S 9,0001b IMPACT!



Fifty times every minute the PELAPONE TRENCHMASTER—Britain's only power rammer to employ petrol-saving direct fuel injection—leaps 20 inches high to pound down with an all-soil compacting punch of 9,000 lb. Always under perfect control, this rugged fuel-miser requires no special skill or strength to operate, is readily transportable, starts easily in the coldest weather and has a simple, protrusion-free, weather-proof design which has reduced regular maintenance to three oil-can lubrication points! But you'll want to see this to believe it; ask for a TRENCHMASTER demonstration. On your own site, of course.

PELAPONE TRENCHMASTER POWER RAMMER

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Sales Division: STEEL HOUSE, EASTCOTE, MIDDLESEX, ENGLAND.
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the finest equipment

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IN
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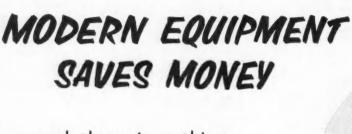
Covered by Patent Nos. 748179 and 748361

Photo by courtesy of G.Percy Trentham Ltd.

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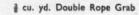
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WESERWOLFF EXCAVATOR



- * FOUR WHEEL DRIVE DIFFERENTIALS
- * SIMPLE CONTROLS
- * FOUR SPEED GEARBOX MAX 13 m.p.h.
- * SELF ALIGNING HYDRAULIC STABILISERS
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£3,900 COMPLETO



"WESERWOLFF" MOBILE EXCAVATOR

GAZEWAY PLANT HIRE LTD.

Anchor Wharf, Windmill Lane, Portsmouth Road, Thames Ditton, Surrey.

Telephone: EMBerbrook 2800/1 & 5511 (Night 6147)

FLINTSHIRE COUNTY COUNCIL. HIGHWAYS DEPARTMENT.

TENDERS are invited for the SUPPLY and DELY TENDERS are invited for the SUPPLY and DELY TENDERS and RUBBER BOOTS. Forms of Yender, from County 16th OCTOBER, 1961. W. HUGH JONES, Clerk of the County Council, Mold. to be returned to W. HUGH JONES, Clerk of the County Council, Mold.

WORCESTERSHIRE COUNTY COUNCIL.

RUBERY BY-PASS.

CONSTRUCTION OF GANNOW ROAD PEDESTRIAN SUBWAY.

TENDERS are invited for the CONSTRUCTION of the ABOVE SUBWAY.

The works include 4B lin. yd. of Reinforced Concrete Vertical Beam Abutment Subway. 74 lin. yd. of Reinforced Concrete Ramps with applied internal finishes, and 230 lin. yd. of Road works in diverting the existing A.30 and the Above the Construction of the Constr

COUNTY BOROUGH OF BLACKPOOL. SUPPLY OF ADVANCE DIRECTION SIGNS.

TENDERS, by 2.30 p.m., FRIDAY, 13th October, are invited for the Supply and DELIVERY of 18 ADVANCE DIRECTION SIGNS, made of either Glass Fibre or Vitreous Enamelled Sheet Steel. Specification, Form of Tender and Drawing from BOROUGH SURVEYOR (P.O. Box 17), Municipal Offices, Blackpool.

BOROUGH OF BROMLEY. ERECTION OF HOUSES AND FLATS.

TENDERS are invited for the ERECTION of 30 HOUSES and 70 FLATS at BURNT ASH LANE, Bromley.

Houses and 70 FLATS at BURNT ASH LANE, Drawings and Conditions of Contract (R.I.B.A. Form specially adapted for the use of local authorities) may be inspected upon application to the Borough Burners of Tender not later than FRIDAY, 13th October, 1961, to the Borough Englineer. When applying for Bills of Quantities and Forms of Tender not later than FRIDAY, 13th October, 1961, to the Borough Englineer. When applying for Bills of Quantities, contractors who have not previously carried out work for the Council and the property of the Council and the Counc

LIONEL KAYE, Town Clerk.

Municipal Offices, Bromley, Kent

BOROUGH OF ENFIELD.

RESURFACING OF MANOR FARM ESTATE,

RESURFACING OF MANOR FARM ESTATE.

ENFIELD.

The COUNCIL invites TENDERS for the ABOVE WORKS, which comprise the Laying of approx. 600 tons of 3cin. thick Bitumen Macadam Carpeting, and other ancillary works.

The Specification, Bill of Quantities, Conditions of Contract and AET M. Acc. (Eng.), M. I.C.E., Borough Engineer and Surveyor, 7 Little Park Gardens, Enfield, Middlesex, upon payment of £2 deposit, returnable upon receipt of a bona-fide Tender and/or the return of all the documents. The Council of the Co

Civic Centre, Enfield, Middx.

STOKESLEY RURAL DISTRICT COUNCIL. GREAT BROUGHTON AND KIRKBY SEWERAGE

GREAT BROUGHTON AND KIRKBY SEWERAGE SCHEME.

The above-named Council Invite TENDERS on a Fixed-orice Bais for the FOLLOWING WORKS CONTRACT NO. 1—The Laying of some 5.700 vd. of 15in. to 6 in. dia. Cast-iron, Concrete and Earthenware Pipe Sewers: 650 vd. of 4in. dia. Cast-iron Rising Main, and the Construction of an Ejector Station and a Construction of an Ejector Station and a Percolating Filter. Humus Tanks. Sludge Drying Beds, and a Pumping Station. CONTRACT NO. 2—The Supply and Erection of Ejector Plant in duplicate, each ejector to Ejector Plant in duplicate, each ejector to 10 consulting Engineers, MESSRS. ARNOLD BROOKS-BANK AND SON. #8 Sunbridge Road, Bradford, 1, on Dayment of a deposit of £5 5s. by cheque, made Syrable to Stokesley Rural District Council) for each problem of the store of the Station of the Stati

H. WYNNE POTTS.

Clerk of the Council.

Council Offices, Stokesley, Middlesbrough, 20th September, 1961.

CONTRACTS

KENT COUNTY COUNCIL.

The above Council invites TENDERS, by not later than the 16th OCTOBER, 1951, for the CONSTRUCTION of TARMACADAM CARRIAGEWAYS and Footpaths, together with Surface Water Drainage, and incidental works, at the FOLLOWING PRIVATE STREETS:

Rarold Road, Saxon Road and Alfred Road.

incidental works, at the FOLLOWING PRIVATE STREETS:

Harold Road, Saxon Road and Alfred Road,
Part of West View Road, Swanley—length 77yd,
Part of Clarence Road and Avondale Road,
Parts of Clarence Road and Avondale Road,
Incident Person Road and Specifications,
Insulation of Clarence Road and Specifications,
with Bills of Quantities, obtained from the County
Surveyor, County Hall, Maldstone, on payment of £2
(each), returnable upon receipt of bona-fide Tenders.

G. T. HECKELS, Clerk of the County Council. MIDDLESEX COUNTY COUNCIL.

EAST MIDDLESEX MAIN DRAINAGE. CONTRACT NO. E.M.D.9.

CONTRACT NO. E.M.D.9.

FIRM-PRICE TENDERS are invited for the ERECTION of 8 SEMI-DETACHED HOUSES, 16 TERRACE HOUSES, 1 BLOCK OF 4 FLATS, and Roadworks and Sewerage in connection therewith, at Tendering documents will be available on 9th October, 1961, from the Consuiting Engineers, 1. D. AND D. M. WATSON, MM.I.C.E., 67 Tutton Street, Westminster, S.W.1, upon payment of a deposit of Ten Guineas which will be returned on receipt of a bona-fide Tender and the return of all documents. Cheques should be made payable to the Middlesse to Cheques should be made payable to the Middlesse Tender and the return of all documents. Cheques should be made payable to the Middlesse The Council does not bind itself to accept the lowest or any Tender. Tenders must be delivered in a plain package endorsed "Tender for Contract No. E.M.D.9." and delivered to the undersigned by Noon on MONDAY. 6th November, 1961. KENNETH GOODACRE,

n November, 1961.

KENNETH GOODACRE,
The Clerk of the County Council.
Guildhail,
Westminster, S.W.1.

THURROCK URBAN DISTRICT COUNCIL.

ENGINEER AND SURVEYOR'S DEPARTMENT. MAINTENANCE WORKS ON HIGHWAYS, 1961/62.

MAINTENANCE WORKS ON HIGHWAYS, 1961/62.

TENDERS are invited for MAINTENANCE and MINOR IMPROVEMENT WORKS ON TRUNK and CLASSIFIED ROADS during the current financial year. Work provides for Breaking-out and Providing approx. 6,000 sq. yd. Reinforced Concrete Carriage-gand Laying 10,500 tons Asphalt as Build-up and surfacing, together with Kerbing, Drainage and other ancillary works.

Forms of Tender, Specification and Schedule may be obtained on application from the Engineer and Surveyor, Council Offices, Whitehall Lane, Grays, on refunded on receipt of a bona-fied Tender. Will be refunded on receipt of a bona-fied Tender. of Contract may be inspected at the Engineer and Surveyor's Office during normal office hours.

Tenders for the First Part of the Works, together with priced Schedules, must be delivered to the Council, in the encology.

later than 12 Noon on TUESDAT, 10th October, 1961.
The Council do not bind themselves to accept the lowest or any Tender.

A F PROLE.

A. E. POOLE, Clerk of the Council.

Council Offices, Whitehall Lane, Grays. 18th September, 1961. CARLTON URBAN DISTRICT COUNCIL. HIGHWAYS ACT, 1959 (PART IX).

PROPOSED MAKING-UP OF CASTLETON AVENUE, CARLTON.

TENDERS are invited for the CONSTRUCTION of CARRIAGEWAYS, FOOTWAYS, and incidental works, at Castleton Ayenue, Carlton.

Specifications, Bills of Quantities and Forms of Tender may be obtained from the Engineer and Surveyor, E. C. KIRK, A.M.I.C.E., F.R.I.C.S., MI.Mun.E., where Drawings and General Conditions of Contract may be inspected during normal office hours.

urs.

Deposit of £2, returnable on receipt of bona-fide
nders not subsequently withdrawn.

Tenders, in a plain sealed envelope endorsed
Private Street Works," to reach the undersigned
t later than 10 a.m., TUESDAY, 17th October,

1961.
The Council does not bind itself to accept the lowest or any Tender.

A. E. F. WALKER,
Clerk of the Council.

Council House,
Burton Road,
Carlton,
Notingham.
20th September, 1961.
C A M B R I D

SOUTH CAMBRIDGESHIRE EASTERN AREA WATER SUPPLY.

RIVEY HILL RESERVOIR AND BOOSTER STATION— CONTRACT NO. 5.

TENDERS are invited for the CONSTRUCTION.
TESTING and MAINTENANCE of a BOOSTER
STATION, a 300.000-gallon POST-TENSIONED CIRCULAR CONCRETE RESERVOIR, and all other works
Incidental thereto.
A copy of the Contract documents may be obtained
A copy of the Contract documents may be obtained
A copy of the Contract documents may be obtained
A copy of the Contract occuments may be obtained
A copy of the Contract occuments may be obtained
For Consulting Engineers, MESSRS.
LEMON AND BLIZARD. 59 Tufton Street, Westminster, S.W.1, upon payment of a deposit cheque of
Five Guineas made payable to the Council, which will
be returned on receipt of a bona-fide Tender and the
return of all documents. The Form of Tender and a
priced Bill of Quantities must be delivered, in
sealed envelope endorsestion. To the undersigned
not later than TUESDAY, 24th October, 1961.
The Council do not bind themselves to accept the
lowest or any Tender.

County Hall,
I blobson Street.

CONTRACTS

WEST PAKISTAN WATER AND POWER DEVELOPMENT AUTHORITY.

INDUS BASIN PROJECT.

ADVANCE NOTICE OF THE INTENT TO INVITE TENDERS FOR THE CONSTRUCTION OF CANALS AND APPURTENANT WORKS.

ADVANCE NOTICE OF THE INTENT TO INVITE TENDERS FOR THE CONSTRUCTION OF CANALS AND APPURTENANT WORKS.

The above Authority advertised in December, 1960, reparding the CONSTRUCTION of a number of large CANALS in West Pakistan. Their construction will be financed through the Indus Basing Development Fund, the operation of which will be administered Development (World Bank).

The Authority plans to call for two separate construction Tenders on the previously advertised Sidhnal-Mailsi-Bahawal Link Canal instead of a single render as previously contemplated. One Tender will he called for the Mailsi-Bahawal portion. All contractors who have made previous application and who have been prequalified to receive invitations to tender on the Sidhnal-Mailsi-Bahawal portion. All contractors who have made previous application and who have been prequalified to receive invitations to tender on the Sidhnal-Mailsi-Bahawal Link Canal. No further request or suffacility of the construction of the mailsi-Bahawal Link Canal. No further request or suffacility in the construction of the mailsi-Bahawal Link Canal will be sent invitations to tender to submit information of their qualification for prequalified to the construction of the mailsi-Bahawal Link Canal in application for prequalification.

The Mailsi-Behawal Canal will have a length of 11 structures such as regulators, bridges and agreement of the construction of the mailsi-Bahawal Link Canal in application for prequalification.

The Authority plans to call for Tenders for the construction of the Mailsi-Bahawal Link carly in 1962. Only contractors who have been prequalified by the Authority blans to call for Tenders for the construction of the Mailsi-Bahawal Link carly in 1962. Only contractors who wish their names to the included and the construction of the Mailsi-Bahawal Link carly in 1962. Only contractors who wish their names to be included and the construction of the Mailsi-Bahawal Link carly in 1962. Only contractors who wish their names to the included and the construction

West Pakistan Water and Power Development Authority. CITY OF ROCHESTER.

(1) WARREN WOOD REDEVELOPMENT—STAGE 6, 39 HOUSES, 16 FLATS, 2 SHOPS AND 54 GARAGES; (2) EARL ESTATE—STAGE 1D. 68 HOUSES.

(2) EARL ESTATE—STAGE 1D. 68 HOUSES.

TENDERS are invited for the ERECTION of the ABOVE DWELLINGS.

Tender documents . 4/ be obtained from JAMES A. PEEL, A.M.I.C.E., M.I.Mun.E., City Surveyor, 66 Maidstone Road, Rochester, upon payment of £3 3s. deposit in respect of each Scheme, which will be refuded upon receipt of a bona-fide Tender and the stage of the refuger of the stage of the refuger of the stage of the R.I.B.A. Form of Contract, will be required in respect of each Scheme.

Documents in respect of Item 1 above will be issued on or about 10th October, 1961, and are to be returned before 12 Noon on TUESDAY. 7th Documents in respect of Item 2 above will be issued on or about 3rd October, 1961, and are to be returned before 12 Noon on TUESDAY. 24th October, 1961.

The Corporation do not bind themselves to accept the lowest ur any Tender.

The Guildhali, Rochester.

The Guildhall, Rochester. September, 1961. CHICHESTER C I T Y COUNCIL. MILL LANE PUMPING STATION.

TENDERS are invited for the REPLACEMENT of SEWAGE PUMPING MACHINERY and Control Gear, comprising three sets of Pumps and Motors, at Mill Lanc Pumping Station, to handle a maximum flow of 850 g.p.m. through an 8in, rising main 3,100ft. in length.

Lane rumping and the state of t

Greyfriars, North Street, Chichester, Sussex.

ETON RURAL DISTRICT COUNCIL. GERRARDS CROSS RELIEF SEWERS.

GERRARDS CROSS RELIEF SEWERS.

Civil engineering contractors experienced in main drainage work, wishing to be considered for inclusion in a selected list of contractors to TENDER for the CONSTRUCTION in roads and fields of approx. 4,000 lin. yd. of CONCRETE RELIEF SEWERS, ranging in size from 27in. to 9in. dia., together with the Construction of Precast Concrete Manholes Brickman of the Contract Overflow Chambers and with the Contract Overflow Chambers and the services of the contract of t

D. P. HARRISON. Clerk to the Council.

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CONTRACTS

WEST SUSSEX COUNTY COUNCIL. BRIDGE WIDENING AND ROADWORKS AT

FIXED-PRICE TENDERS are invited from experienced contractors for the WIDENING of LOXWOOD BRIDGE. Brick-faced Mass Concrete Walls; 30ft. Prestressed Concrete Deck. The work includes the Realignment and Regarding of approx. 400 lin. yd. Written notice of desire to tender should be made to the County Surveyor, County Hall, Chichester, accompanied by a cheque for Two Guineas, made be refunded on receipt of a bona-fide Tender not subsequently withdrawn. T. C. HAYWARD,

BOROUGH OF MARGATE. CANTERBURY ROAD IMPROVEMENT - STAGE I.

CANTERBURY ROAD IMPROVEMENT — STAGE I.

TENDERS are invited for the SUPPLYING, LAYING and ROLING of FINE COLD ASPHALT on the ACT of the Cold ASPHALT on THE COLD ASPHA

Town Clerk, 40 Grosvenor Place, Margate.

OF STOKE - ON - TRENT.

HIGHWAYS ACT, 1959.

MAKING-UP OF PRIVATE STREETS:

(a) RADFORD ROAD, CLIFFE VALE—
SCHEME NO. 44.

(b) PALMERS GREEN (PART), HARTSHILL,
ETC.—SCHEME NOS. 929 AND 930.

(c) RONSON AVENUE, TRENT VALE, ETC.—
SCHEME NOS. 39 AND 40.

(d) HEATON STREET (PART), MILTON—
SCHEME NO. 22.

The CORPORATION invite TENDERS for the MAKING-UP of the ABOVE STREETS. Drawings and Conditions of Contract may be seen and Bills of Quantities and Specifications obtained from the City Surveyor's Department, Town Hall, Stoke-on-Trent, on payment of £2 each in respect of (b) and £0, and £1 each in respect of (a) and (d), which shall be returned on receipt of a bona-fide Tender.

which shall be returned on receips of Tender.
Tenders and priced Bills of Quantities must be delivered to the Town Clerk, Town Hall, Stoke-on-Trent, in the separate envelopes provided, not later than 12 Noon on WEDNESDAY, 11th October, 1961.
HARRY TAYLOR,
Town Clerk.

BERKHAMSTED URBAN DISTRICT CONTRACTS FOR WORK UP TO £3,000 IN VALUE.

Contractors who are desirous of having their names placed on the Council's list of contractors to be invited is TENDER for CONTRACT WORKS of up to £3,000 in value, may make application by letter. The contracts

riss:

1) Highway Engineering Works.

2) Building Works, including Maintenance.

3) Electrical Installation.

4) Supply and Erection of Wire Fencing.

5) Renewal and Rehxing of Metal Windows.

7) Demolition. (7) Demolition. Applications should be sent to the Engineer and veyor at the address below, not later than Noon WEDNESDAY, 11th October, 1961, and must te the contracts in which the contractor is interested.

D. T. THORNE, Clerk of the Council.

Civic Centre. Berkhamsted, Herts. September, 1961.

HOLLINGBOURN RURAL DISTRICT

HEADCORN SEWAGE DISPOSAL WORKS CONTRACT NO. 4.

CONTRACT NO. 4.

The Council invite TENDERS for the CONSTRUCTION of SEWAGE DISPOSAL WORKS, comprising Sewage and Stormwater Pumping Station, Spun-iron Pumping Main, Sedimentation Tanks, Percolating Filters, Humus Tank, Sludge Drying Beds., and other appurrenant works.

Osend their names and addresses to D. BALFOUR AND SONS, 131 Victoria Street, Westminster, S.W.1, accompanied by a cheque deposit of £10 made payable to the Hollingbourn Rural District Council, not later than TUESDAY, 10th October, after which full pare than TUESDAY, 10th October, after which full pare to receipt of a bons-ide Tender and the receipt all printed documents after the Contract has been let. It is essential that the contractor shall have had considerable experience in similar works and be prepared to furnish security with an approved Society Council of the State of Sewage Disposal Works," must be sent to the undersigned by a date to be given by the Engineers. The Council do not bind themselves to accept the lowest or any Tender.

Council Offices.

Council Offices.

73 College Road,

Council Offices, 73 College Road, Maidstone, Kent.

SOUTH DERBYSHIRE WATER BOARD. COVERING OF EXISTING SERVICE RESERVOIRS.

Covering OF Existing Service Reservoirs.

Contractors able to design and install prestressed and precast concrete units, and wishing to TENDER for the ABOVE SCHMER and wishing to TENDER for the ABOVE SCHMER SUBMIT their Street, Derby, by 16th OCTOBER, 1961.

The work consists of the Provision and Erection of Roofing about 6,000 sq. yd. in extent, which may comprise Prestressed Concrete Slabs or other form of covering, supported by Prestressed and Precast Country of the Street Schmer Street Schmer Schm

N. S. FISHER, Clerk to the Board. 25th September, 1961.

CONTRACTS

BOROUGH OF PUDSEY. ADVANCE PREPARATION OF HOUSING SITE.

ADVANCE PREPARATION OF HOUSING SITE.

The CORPORATION invite TENBERS from civil engineering contractors for the CONSTRUCTION of ABINN CONTROL OF ABINN CONTROL

BARNET URBAN DISTRICT COUNCIL. BARNET GATE LANE—SOIL AND SURFACE WATER SEWERS.

BARNEL ONLE SEWERS.

The Council invite TENDERS for the LAYING of approx. 3, 200 lin., vid. of \$70NEWARE PIPE \$01L and \$URFACE WATER SEWER of 6in., 9in. and 12in. dial., certain lengths of which will be laid with two pipes in one trench, together with Precast Concrete Manholes, and other ancillary works.

Conditions of Contract and Drawings may be inspected, and Specification of Works, Bill of Quantities and Form of Tender obtained on application to the Engineer and Surveyor, Ravenscroft House, Wood the Engineer and Surveyor, Ravenscroft House, Wood between the hours of 9 a.m. and 5 p.m. Sealed Tenders must be delivered to the undersigned not later than 12 Noon on SATURDAY, the 14th October, 1961, and marked in the top left-hand corner of the envelope "Barnet Gate Lane Sewer."

The Council does not bind itself to accept the lowest or any Tender.

ALFRED S. MAYS, Clerk of the Council.

Municipal Offices,
Wood Street,
Barnet, Herts.
20th September, 1961.

ASPULL URBAN DISTRICT COUNCIL. SCOTMOOR DEVELOPMENT SITE.

CONTRACT FOR SURFACE WATER SEWERS AND SERVICE ROADS.

SERVICE ROADS.

TENDERS are invited for the CONSTRUCTION of 2504d. of 6in. and 9in. SURFACE WATER SEWERS and the Construction of Precast Correte Manholes, and other ancillary works: and also the CONSTRUCTION of approx. 1440 sq. vd. of TARMACADAM CARRIAGEWAY, complete with Concrete Kerbing and approx. 300 sq. vd. of Concrete Fiag Footway of Contract, Specification. Bills of Conditions of Contract, Specification. Bills of Contract, Specification. Bills of Conditions of Contract, Specification. Bills of Contract, Specificatio

PETER RYDER, Clerk of the Council.

Council Offices, Aspull, Near Wigan. 5th October, 1961.

BRIDGE-BLEAN RUF RURAL DISTRICT

THANINGTON-WITHOUT (TONFORD LANE AND ASHFORD ROAD) SEWERAGE SCHEME.

THANINGTON-WITHOUT (TONFORD LANE AND ASHFORD ROAD) SEWERAGE SCHEME.

TENDERS are invited for the CONSTRUCTION of approx. 1,7174d. of 6in. dia. SEWER: SSEyd. of 4in. dia. PUMPING MAIN, and the ERECTION of a PUMPING STATION. together with the Construction of House Connections, and other Drainage Works. Tender documents may be obtained from the Engineer and Surveyor at the undermentioned address, on deposit of a fee of Two Guineas (cheques, postal orders, etc., to be made payable to Bridge-Blean Rural District Council). The deposit will be retunded on the control of a bona-fide Tender not subsequently copy of the Bills of Quantities) lent for the purpose of tendering.

The Contract Drawings and the General Conditions of Contract may be inspected at the Office of the Engineer and Surveyor during normal business hours. Tenders, in sealed envelopes endorsed "Tonford Lane Sewerage Scheme," accompanied by the Specification and mae copy of the Bills of Quantities, must provide the council do not bind themselves to accept the lowest or any Tender.

1. F. SOILLEUX, Council Offices, 41 Old Dover Road.

BIRMINGHAM TAME & REA DISTRICT

MINWORTH NEW WORKS-BACTERIA BEDS

BACTERIA BED MEDIA

BACTERIA BED MEDIA.

TENDERS are invited for the SUPPLY and DELIVERY of the FOLLOWING QUANTITIES of BACTERIA BED MEDIA:

3,000 tons 21n. to 4in. Graded Washed Crushed 35,000 tons 1in. to 2in. Graded Washed Crushed Gravel.

Deliveries of these approx. quantities will be required during a period of two years.

Tender documents may be obtained from the Bajniere to the Board, Rookery Park, Erdington, Brighton of the Tenders, in the envelope provided, must reach the undersigned not later than First Post on MONDAY, 16th October, 1961.

The Board is not bound to accept the lowest or any other Tender.

ARTHUR J. WRIGHT, Clerk to the Board.

Clerk's Office, Lombard House, Great Charles Street, Birmingham, 3. 27th Scptember, 1961.

CONTRACTS

BOROUGH OF CHELMSFORD.

BADDOW ROAD AND SPRINGFIELD ROAD

TENDERS are invited on a Fixed-price Basis for the RECTION of 50 25tt. mounting helpit STELL COLUMNS, and FIXING 21 FLUORESCETT. TERNS and 36 140-W SODIUM DISCHARGE LANTERNS, and ancillary works.

Tender documents may be obtained from the Borough Engineer and Surveyor, Municipal Offices. Coval Lane. Chelmsford, upon payment of a deposit of the County of the County

B. A. FRANCIS. Town Clerk. Municipal Offices, Coval Lane, Cheimsford.

BOROUGH OF COLCHESTER.

CONSTRUCTION OF FOUL SEWER. SHRUB END INDUSTRIAL ESTATE.

SHRUB END INDUSTRIAL ESTATE.

TENDERS are invited from competent civil engineering contractors for the CONSTRUCTION of about 280 lin., yd. of 9in. dia. SEWERS, together with 280 lin. yd. of 9in. dia. SEWERS, together with 280 lin. yd. of 9in. dia. SEWERS, together with 280 lin. yd. of 9in. dia. SEWERS, together with 280 lin. yd. of 9in. dia. SEWERS, together with 280 lin. yd. of 9in. dia. SEWERS, together with 281 lin. SEWERS, tog

J. S. ORCHARD, A.M.I.C.E., Borough Engineer. 1 West Stockwell Street, Colchester, Essex.

BOROUGH OF ELLESMERE PORT.
ROAD AND CAMBRIDGE ROAD
IMPROVEMENTS.

TENDERS are invited for the LAYING of 1,000 lin. yd. of KERBS, RECONSTRUCTING 2,000 super. yd. of MACADAM FOOTWAYS, and SURFACING 4,000 super. yd. of CARRIAGEWAY.

Contract documents obtainable from the Borough englineer and Surveyor's Department, Queen Street, Eliesmere Port, on and after 29th September, 1961. Sealed Tenders, in the plan official envelope pro-more and the plan official envelope pro-more properties of the plan of the pl

R. J. BERNIE, Town Clerk.

Municipal Offices, Ellesmero Port.

WILTON BOROUGH COUNCIL THE ROAD RESURFACING AT BULBRIDGE WILTON

TENDERS will be invited for the FINAL RESUR-FACING of approx. 10,000yd. The Bill of Quantity will be issued on the 16th OCTOBER, 1961, and Tenders will be required by the 23rd OCTOBER, 1961. Contractors who wish to be sent these Bills should apply to the Architects, Messrs. ROBERT POTTER & RICHARD HARE, FF.R.I.B.A., De Vaux House, Salisbury, om or before 9th OCTOBER.

Municipal Offices,
Kingsbury Square,
Willow
25th September, 1961.

T Y O F C A R D I F F. CITY

EASTERN OUTFALL SEWER DIVERSION.

FIXED-PRICE TENDERS are invited for the CONSTRUCTION of approx. 1,428 lin. yd, of 84in. dia. CONCRETE PIPE FOUL SEWER, together with Manholes and appurtenant works.

Conditions of Tender, Specification, Bills of Quantities and Drawings may be obtained from the City Surveyor, at whose Office Drawings and Conditions, of the sum of \$2.25. Cheques should be made payable to the sum of \$2.25. Cheques should be made payable to the Cardiff Corporation and crossed "Not Negotiable and Co."

The deposit will be refunded on receipt of a bona-fide Tender or the return of the Contrat occuments by the closing date.

Until Sewer Diversion." addressed to the undersigned at the City Hall, Cardiff, and sent by Registered Post or Recorded Delivery so as to be received not later than the 23rd OCTOBER, 1961.

The envelope must not bear the name of, or any mark indicating the identity of, the senderer.

The Council does not bind itself to accept the lowest or any Tender.

S. TAPPER-IONES.

S. TAPPER-JONES, Town Clerk. City Hall, Cardiff. 15th September,

BRIDPORT RURAL DISTRICT COUNCIL. BURTON BRADSTOCK S.D. WORKS EXTENSION

TENDERS are invited from experienced contractors for the CONSTRUCTION of a SLUDGE DIGESTION TANK, Sludge Drying Beds, and ancillary works. Plans and Specification can be obtained from the Council's Engineer and Surveyor. Tenders, in plain scaled envelopes endorsed Burton S.D. Works," should be received by the undersigned not later than MONDAY, 16th October, 1961. 1961.
The Council do not bind themselves to accept the lowest or any Tender.

E. ANDREWS.

Clerk to the Council.

Mountfield, Bridport, 25th September, 1961.

LANCASHIRE COUNTY COUNCIL.

TENDERS are invited for the BRIDGEWORKS involved in the Construction of FORD FACTORY 88/IDGE, carrying the Overpass to the Ford Factory, 88/IDGE, carrying the Overpass to the Ford Factory, seeks, over the Extended of Speek Boulevard to the Widness Bridgeworks comprise a Two-span Bridge 93ft. The Bridgeworks comprise a Two-span Bridge 93ft. wide the Speeks of Brick-faced Mass Concrete Abutinetts and Wing Walls, and a Solid Brick Pier. The Substructure consists of Brick-faced Mass Concrete Abutinetts and Wing Walls, and a Solid Brick Pier. The Supersorted Concrete Deck Slab. Wing Walls, and a Solid Brick Pier. The Substructure Consists of Brick-faced Mass Concrete Abutinets and Contract documents available on the 7th October, 1961, on application to the County Surreyor and Bridgemaster, P.O. Box No. 9, County Hall, Preston, on deposit of £5 which will be refunded only on receipt the Pierson of the Substructure of t

Council.

Contractors to quote Ref. 183,51.

Tenders to be received by the CLERK OF THE

COUNTY COUNCIL. County Hall, Preston, not later
than 10 a.m. on TUESDAY, 7th November, 1961. COUNTY BOROUGH OF HUDDERSFIELD.

ALTERATIONS AND ADDITIONS TO

Contractors are invited to submit an All-trades TENDER on a Firm-price Basis for the ABOVE WORK.

MONE.

AND ADDRESS OF THE MONEY OF THE MONEY

Sins to them on Monday, the develope pro-ference should be returned, in the envelope pro-vided, to the Town Clerk not later than 10 a.m. on MONDAY, the 13th November, 1961. The Corporation do not blind themselves to accept the lowest or any Tender. HARRY BANN.

HARRY BANN, Town Clerk.

BOROUGH OF RAWTENSTALL. IMPROVED STREET LIGHTING B.6238-

BURNLEY ROAD EAST.

TENDERS are invited for the SUPPLY and DELIVERY of the FOLLOWING:

(a) 15S 140-W Side Entry Sodium Lighting (b) 15S Bracket Arms, 42in. projection, complete with supporting stay rod pole clamp of the supporting stay rod pole clamp of the supporting stay rod pole clamping stay reporting the supporting stay reporting stay reporting stay reporting stay rod pole supporting stay rod

(Signed) COLIN CAMPBELL, Town Clerk.

Town Hall, Raytenstall, Rossendale, Lancs. 21st September, 1961. BOROUGH OF ROWLEY REGIS. STORM WATER SEWER-BIRCH CRESCENT,

TIVIDALE.

TENDERS are invited for the LAYING of approx. 230 lin. vd. of 15in. dia. SEWER in open land and approx. 390 lin. vd. of 15in. to 9in. dia. SEWER in open land and approx. 390 lin. vd. of 15in. to 9in. dia. SEWERS in Carriageway along Birch Crescent, complete with ancillary works, including the Removal of approx. 170 lin. vd. of abandoned 9in. Sewer.
Secification and Bills of Quantities may be obtained from, and Conditions of Contract and Plans inspected at, the Office of the Borough Engineer and Surveyor, S. G. WOOD, M.I. Munic.. at the address below, on syment of a deposit of £2 2s. which will be refunded on ecceipt of a bona-fide Tender and not subsequently members of a bona-fide Tender and not subsequently members of the service of t

Municipal Buildings, Old Hill, Staffs.

NORTH DEVON WATER BOARD. CONTRACT NO. 103.

CONSTRUCTION OF SOWDEN (FORT HILL) SERVICE RESERVOIR, BARNSTAPLE.

TENDERS are invited from experienced contractors for the CONSTRUCTION of a REINFORCED CONTRECTION of a REINFORCED CONTRECOVER by the CONSTRUCTION of a REINFORCED CONTRECOVER bearing to the contain one million gallons, and the contract of the contract of

R. T. SHEARS, Clerk to the Board. 4 Barnfield Crescent, Exeter.

CONTRACTS

CARMARTHENSHIRB COUNTY COUNCIL.

PONTARDULAIS-CROSSHANDS-CARMARTHEN TRUNK ROAD, A.48.

TENDERS are invited for the EXECUTION of the FOLLOWING WORKS, under separate Contracts: CONTRACT NO. 1—Improvement South of Pristol House, near Cwmgwili. Comprising the excavation by mechanical plant of approx. 19,000 cu. yd. of-material, to be hauled to spoil on sites to be found by the contractor, fencing, and surface CONTRACT and 2—Improvement between Parcydal River Bridge to Biaenhirwaun Colliery Entrance, near Crosshands. Comprising the construction of new hedgebanks, fencing, surface water drainage, forecourt walling, failing trees, and general CONTRACY and the contractor of the contractor of

banks, fencing, surface water drainage. forecourt wailing, falling trees, and general excavation.

CONTRACT Nantycaws. Carmarthen.

Comprising the excavation by mechanical paint of approx. 8,100 cu, vd. of material, including rock, to he hauled for a distance of about two miles to a site found by the Council, construction of new hedgebanks, fencing, felling trees, excavation of new hedgebanks.

Specific Process of Council of Contract and Form of Council of Contract and Form of Council of Contract and Form of Contract in the undersigned on payment of a deposit of 2.2 for each Contract, which will be returned on receipt of a bona-fide Tender which is not subsequently withdrawn.

Plans may be inspected during normal office hours at the undermentioned office.

Tenders (with all documents), in plain sealed envelopes not bearing any name or mark indicating the sender, and endorsed "Contract No.—"must be delivered to W. S. THOMAS, Clerk of the Council of Cotober, 1961.

The Council do Cotober, 1961.

The Council do Cotober, 1961.

Length Process of County Hall, Carmarthen, not later than the county Council of Cotober, 1961.

Length Process of County Hall, Carmarthen, not later than the county Council of Cotober, 1961.

Length Process of County Hall, Carmarthen, not later than the county Council of Cotober, 1961.

Length Process of County Hall, Carmarthen, not later than the county Council of Cotober, 1961.

Length Process of County Hall, Carmarthen, not later than the county Council of Cotober, 1961.

Length Process of County Hall, Carmarthen, not later than the county Council of County Hall, County Engineer and Surveyor.

RICHARDS, A.M.I.C.E., County Engineer and Surveyor.

County Hall, Carmarthen, September, 1961. DERBYSHIRE COUNTY COUNCIL. BRIDGES AND HIGHWAYS DEPARTMENT.

DERBY-CHESTERFIELD TRUNK ROAD, A.61—
IMPROVEMENT BETWEEN SMITHY HOUSES AND
MAREHAY LEVEL CROSSING.

MAREHAY LEVEL CROSSING.

TENDERS are invited for IMPROVEMENT WORKS on approx. 1,650 lin. vd. of Road, to provide 33ft. Carriageway; including 14,000 cu. vd. Earthworks. 14,000 sq. vd. Earthworks. The control of the c

S. MEHEW, County Surveyor.

BOROUGH OF COLNE.

82 FLATS AND 12 HOUSES.

Comprehensive TENDERS on a Fixed-price Basis are invited for the ERECTION complete, including ancillary work, of 82 FLATS and 12 HOUSES at LOB COMMON, Coine. Tenders for Individual trades will not be accepted. Specification, Bill of Quantities and Form of Tender may be obtained from the Borough Engineer and Surveyor, Town Hall, Coine, Lancs, am payment of Two Guineas (refundable on receipt of bona-fide Two Guineas (refundable on receipt of bona-fide Renders, in plain and Center of the Common Section of the Common Housing Scheme No. 37." to be delivered to me at the Town Hall not later than First Post, TUESDAY, 24th October.

CARLTON URBAN DISTRICT COUNCIL. PHOENIX FARM ESTATE, SITE NO. 36-

PROPOSED ERECTION OF 98 HOUSES.

PROPOSED ERECTION OF 98 HOUSES.

TENDERS are invited for the ERECTION of 98 HOUSES, together with incidental works, at the ABOVE SITE.

BY ABOVE SITE.

The contract is prepared with roads and sewers, and this Contract is for building work only.

Drawings and General Conditions of Contract may be inspected at the Office of the Engineer and Surveyor.

E. C. KIRK, F.R.I.C.S., A.M.I.C.E., M.I.Mun.E., during normal office hours, from whom Forms of Tender and Bills of Quantities may be will be refunded on receipt of a bona-fide Tender not subsequently withdrawn, and of the return of all the documents supplied.

Tenders, in a plain sealed envelope endorsed to the undersigned for later than 10 s.m., The Council do not blind themselves to accept the lowest or any Tender.

Council House.

Council House.

Council House, Burton Road, Carlton, Near Nottingham, 22nd September, 1961.

HAVERHILL URBAN DISTRICT

FIXED-PRICE TENDERS invited for a BLOCK of Four small FACTORIES each of 2.529ft. super. and ancillary works. Bills of Quantities and Drawing obtainable from J. C. MYERS, Chartered Architect, 23A High Street, Haverhill, Suffolk, on deposit of £3 3s., made payable to the Haverhill Urban District Council. Tenders must reach the CLERK OF THE COUNCIL, Council Offices, Haverhill, by 10 CCTOBER, 1961, in sealed envelopes, endorsed "Unit

CONTRACTS

BOROUGH OF SHAFTESBURY. SEWERAGE.

CONTRACTS NOS. 1 AND 2.

SEWERAGE.

CONTRACTS NOS. 1 AND 2.

TENDERS are invited for the WORK and MATERIALS REQUIRED in the Construction under Contract No. 1 of approx. 245 lin, vd. of 15in, and 12in, dia. Concrete Sewers in the High Street, together with approx. 1,225 lin, vd. of 91n, 6in, and 4in. dia. CONCRETE, GLAZED STONEWARE and CAST-IRON SEWERS and Connections, Precast Concrete Manholes, and the SPEAKING-OUT of existing SEWERS, together with other works and CAST-IRON SEWERS, and Connections, Precast Concrete Manholes, and the SPEAKING-OUT of existing SEWERS, together with other works and Alfan, dia. Glazed Stoneware and Cast-iron Sewer Connections, and inspection Chambers, in Passage-contract No. 2 of approx. 300 lin, vd. of 6in. and 4in. dia. Glazed Stoneware and Cast-iron Sewer Connections, and inspection Chambers, in Passage-contract No. 2 of approx. 300 lin, vd. of 6in. and 4in. dia. Glazed Stoneware and Cast-iron Sewer Connections, and inspection Chambers, in Passage-contractors, and inspection Chambers, in Passage-ship of the Contractors and the Filing-in of an Abandoned Brick. Sewer, together with other works at the Borough Surveyor's Office, 28 Beil Street, Shaftes-bury. Dorset, or at the Office of the Engineers at the Borough Surveyor's Office, 28 Beil Street, Shaftes-bury. Dorset, or at the Office of the Engineers for either or both Contracts, and copies of the relevant Specifications, Bills of Quantities and Forms of Tenders will be forwarded by the Engineers to intending Guineas for the document them of the sum of Five which they propose to submit a Tender, which will be returned an receipt of a bona-fide Tender and all other documents supplied.

Tenders, on the forms provided, must be delivered, in plain sealed envelopes, accompanied by the priced Burders of the Supplied.

Tenders, on the forms provided, must be delivered, in plain sealed envelopes, accompanied by the priced Burders of the Supplied.

Tenders, on the forms provided, must be delivered in plain sealed envelopes, accompanied by the priced Burders of the

H. ORMAN, Town Clerk. Town Clerk's Office, 28 Bell Street, Shaftesbury, Dorset, September, 1961.

BOROUGH OF POOLE.

NEW QUAY ROAD AND FERRY ROAD RECONSTRUCTION.

TENDERS invited for the RECONSTRUCTION of NEW QUAY ROAD and FERRY ROAD, comprising some 5.000 st. vy. of Carriageway, together with Works (6in. to 15in. dia.). Surface Water Drainage Works (6in. to 15in. dia.). Details from Borough Engineer on Wednesday, 4th October, 1961. Two Guineas deposit. Tenders to me by Noon, MONDAY, 23rd October, 1961.

J. G. HILLIER, Town Clerk.

BOROUGH OF ILFORD. RODING VALLEY MID-LEVEL SOIL SEWER-

TENDERS are invited from contractors with considerable experience in large drainage works for the LAVING of approx. 2.315 lin. yd. of 21in. dia to 1.2 miles of 2.1 miles of 2

BOROUGH OF RUGBY. ERECTION OF 54 FLATS, 26 HOUSES AND NINE BUNGALOWS.

The CORPORATION Invite TENDERS for the ERECTION of 54 FLATS (In nine blocks), 26 MOUSES, NINE BUNGALOWS, 22 BRICK-CONSTRUCTED LOCK-UP GARAGES and a SERVICE ROAD at ABBOTTS FARM ESTATE, Rugby.

The work may be let lit two Contracts, viz.: (1) Service Road (2) 26 Houses and Flats, 22 Garages and erric Road: (2) 26 Houses and Flats, 22 Garages and erric Road: (2) 26 Houses and Flats, 22 Garages and erric Road: (2) 26 Houses and Flats, 22 Garages and erric Road: (2) 26 Houses and Flats, 22 Garages and erric Road: (2) 26 Houses and Flats, 25 Houses and Flats, 25 Houses and Flats, 25 Houses and 15 House

THE URBAN DISTRICT COUNCIL OF

ERECTION OF FLATS.

TENDERS are invited for the ERECTION of NINE FLATS in One 3-storey Block at PENYWAUN. Aberdare.

FLATS in One 3-storey Brown Aberdare.

Bills of Quantities and Tender Forms, etc., may be obtained from the Engineer and Surveyor, Vestry Hall, Aberdare, on payment of Two Guineas which will be returned in exchange for a bona-fide Tender not subsequently withdrawn, and all loaned documents. Tenders, in plain sealed envelopes bearing no mark or indication of the sender, but endorsed aberon to the sender, but endorsed aberon with the sender of the Sender Sender of the Sender Sender Sender of the Sender Sender

D. G. JAMES. Clerk of the Council.

SUPPLEMENT

COUNTY BOROUGH OF

SOUTHEND-ON-SEA.

Contractors interested in submitting a TENDER for the CONSTRUCTION of an ACCESS ROAD off SUTTON ROAD, approx. 85yd. In length, including FOUL and SURFACE WATER SEWERS, and incidental works in connection therewith, should submit their names, together with a deposit of Ender and 13th OCTOBER, 1961, to the Bourston Contractors from whom Tender, 1961, to the Bourst of Contractors from whom Tender, 1961, to a bona-fide Tender and/or the return of all loaned documents.

Sealed Tenders, addressed to the undersigned, and endorsed "Access Road off Sutton Road," are to be delivered to this Office by 3 p.m. on a date to be specified, and no Tender received thereafter will be considered.

No Tender will be received except in the special

onsidered.

No Tender will be received except in the special nyelope provided, which shall not bear any name rank indicating the sender.

The Corporation do not bind themselves to accept the lowest or any Tender.

Provided the sender of the sender of the sender of the sender. ARCHIBALD GLEN. Town Clerk.

Municipal Buildings, Southend-on-Sea, 26th September, 1961

BOROUGH OF SHREWSBURY. MONKMOOR SEWAGE WORKS RECONSTRUCTION.

MONKMOOR SEWAGE WORKS RECONSTRUCTION.

The CORPORATION propose shortly to invite TENDERS on a Fixed-price Basis from a selected list of contractors for the CONSTRUCTION of a new SEWAGE TREATMENT WORKS for the Borough (design population 61.000).

Contractors who are experienced in this class of work, and possess the necessary organisation and labour force, are invited to apply for inclusion on the property of the scheme and information required by Edials of the scheme and information required by Surveyor, Guildhall, Shrewsbury.

Closing date for receipt of applications with information required, 10 a.m., MONDAY, 9th October, 1961.

S. R. H. LOXTON. Town Clerk.

BOROUGH OF POOLE.

PRIVATE STREET WORKS AND PUBLIC SEWERAGE. GROUP I.

The Council Invites TENDERS for MAKING-UP STREETS in the ABOVE GROUP, and for WORKS of SURFACE WATER DRAINAGE. The total length of the streets approximates 637vd.
Contract documents from the Borough Engineer on payment of Two Guineas deposit.
Tenders to me by Noon on 23rd OCTOBER, 1961.
J. G. HILLIER, Town Clerk.

WOODBRIDGE URBAN DISTRICT

WATER SOFTENING PLANT.

The Council invite TENDERS from experienced contractors for the SUPPLY and INSTALLATION of COUNCIL PARTY of the Softening of their water supply. Specifications and all details, together with the Form of Tender, can be obtained from the Council's Offices. Eden Lodge, Woodbridge, Suffolk, all any time before the 29th OCTOBER, 19 Suffolk, all any time before the 29th OCTOBER, 19 21) will be happy to the council do not bind themselves to accept the lowest or any Tender.

P. W. COTTON.

P. W. COTTON. Clerk of the Council.

NORTH LONSDALE RURAL DISTRICT

OUTGATE SEWERAGE AND SEWAGE DISPOSAL SCHEME

SEWAGE DISPOSAL SCHEME.

TENDERS are invited for the FOLLOWING WORKS:

(1) Construction of Sewage Disposal Works,
consisting of a Sedimens of Sewage Disposal Works,
consisting of a Sedimens of Sewage Disposal Works,
consisting of Sedimens of Sewage Disposal Sedimens of Sewage Claying approx. 89 lin. yd. of 9in. G.S.W.
Sewer.

(3) Laying approx. 379 lin. yd. of 6in. G.S.W.
and Pitch Fibre Sewer.

(4) Constructing of Quantities and Specification may be obtained from, and the Plans inspected at the Office of, the Council's Engineer and Surveyor,
Mr. H. WHITTAKER, "Todbusk," Springfield Road,
Ulverston.

In plain sealed envelopes, endorsed "Outcate Sewerage and Sewage Disposal Scheme." to be lodged with the undersigned not later than Noon on the 1st NOVEMBER, 1961.

Clerk of the Council.

26th September, 1961.

FLAXTON RURAL DISTRICT COUNCIL. MEADOWFIELDS SEWAGE PUMPING STATION AND RISING MAINS.

TENDERS are invited on a Fixed-price Basis for the CONSTRUCTION of a SEWAGE PUMPING STATION near Meadownlets Drive. Huntington. near york and 15in. along of about 4.460 lin, yd, of 9in. and 15in. along of about 4.460 lin, yd, of 9in. and 15in. along of about 4.460 lin, yd, or 9in. and 15in. along of about 4.400 lin, yd, or 9in. and 15in. along of about 50 lin, yd, or 9in. and 15in. along of about 50 lines of the Council's Consulting Engineers, MESSRS. FAIRBANK AND SON, M.I.C.E., 29 St. Mary's, Bootham, York, on and after the 2nd October, 1961, during normal working hours.

Ster the 2nd October, 1961, during normal working hours. Copies of the Specification, Bill of Quantities and Form of Tender may be obtained from the Consulting Engineers on payment of Three Guineas (by cheque, made payable to the Flaxton Rural District Council) which will be returned on receipt of a bona-fide Tenders, in plain scaled envelopes endorsed undersigned not later than 12 Noon on MONDAY, 23rd October, 1961.

The Council on on bind themselves to accept the lowest ar any Tender, and the acceptance of any Tender is conditional upon the approval of the Minister of Mousing and Local Government.

A. R. TUNNAH.

Council Offices,

CONTRACTS

COUNTY BOROUGH OF HUDDERSFIELD.

ERECTION OF DAY NURSERY-NORTHGATE.

Contractors are invited to submit an All-trades TENDER on a Firm-price Basis for the ABOVE WORK. WORK.

Form of Tender and Bills of Quantities from the lorough Architect's Office. High Street Buildings. Undersheld. Deposit &2 2s., refunded on receipt of Tender not subsequently withdrawn. Sealed Tenders, in the envelope provided, to be elivered to the Town Clerk not later than 10 a.m. n MONDAY, the 23rd October, 1961.

The Corporation do not bind themselves to accept he lowest or any Tender.

HARRY BANN. Town Clerk.

COUNTY BOROUGH

TENDERS are invited for the SUPPLY of MOTOR MOWING MACHINES and a GANG MOWER for the Education Committee.

Forms of Tender may be obtained from the Parks Superintendent, Burdett Road, Southend-on-Sea, and must be returned to the TOWN CLERK, Municipal Buildings, by 3 p.m. on WEDNESDAY, 11th October,

ARCHIBALD GLEN, Town Clerk

TALBOT CORPORATION. STREET LIGHTING SCHEME ELECTRICITY-HARRY SITE, SANDFIELDS, PORT TALBOT.

HARRY SITE, SANDFIELDS, PORT TALBOT.

TENDERS are invited for the ABOVE SCHEME, which consists of Class "A" and "B" Lighting, and contains the FOLLOWING ITEMS:

No. 46—80-W Chokers and Condensers.
No. 25—200-W Sodium Lanterns, etc.
No. 7—" Keep Left "Bollards.
Traffic Signs.

Forms of Tender, Specification, Bills of Quantitles may be obtained from the Borough Engineer, G. V. GRIFFITHS, A.M.I.C.E., on payment of a deposit of \$2 2s. which will be refunded on receipt of a bonafide Tender not subsequently withdrawn.

Plans may be inspected at the Borough Engineer's appointment be made. It is requested that an appointment be made.

Completed Tenders, in a plain envelope endorsed "Street Lighting Scheme—Electricity—Harry Site, Sandfields, Aberavon," must be returned to the undersigned not later than Noon, 16th OctroBER, 1961.

The Corporation is not bound to accept the lowest

he Corporation is not bound to accept the lowest W. KING DAVIES, Town Clerk

Municipal Buildings, Port Talbot. Port Talbot. ASHBOURNE U R B A N DISTRICT COUNCIL.

WATERWORKS FIELD DEVELOPMENT—STAGE I.

TENDERS are invited for the CONSTRUCTION of approx. 900 sq. vd. of CARRIAGEWAY and 600 sq. vd. of Pavement, together with Kerbs and Soli and Surface Water Drains, etc., at the Waterworks Field, off Old Derby Road, Ashbourne. The Carriageway and Pavement will at present be finished with a temporary tar-samacadam at the Conclusion of the housing development.

Plans may be seen, and Form of Tender, Specification and Bill of Quantities may be obtained from P. W. THORNLEY, M.I.Mun.E., M.R.S.H., Engineer and Surveyor, Compton Offices, Ashbourne, on payment of a deposit of £1 1s, which will be returnable upon receipt of a bona-fide Tender.

Sealed Tenders to be delivered to undersigned not later than Noon on MONDAY, the 13th November 188 endorsed Waterworks Field Development.

r, 1901, endorsed the stage i."

Stage i."

The Council do not bind themselves to accept the west or any Tender.

F H THOMAS, F. H. THOMAS, Clerk of the Council.

Compton Offices.
Ashbourne, Derbys.
29th September, 1961.

STROUD URBAN DISTRICT COUNCIL.

WIDENING OF KITESNEST LANE.

TENDERS are invited for the EXECUTION of the ADVE WORK, comprising approx. 400 lin. yd. of Tarmacadam Carriageway, and Footpaths, according to the Adversary of Tender and Bills of Quantities may be obtained upon application to the Engineer and Surveyor. Tenders, in plain sealed envelopes endorsed "Tender—Kitesnest Lane," must be sent to the undersigned by First Post on the 17th OCTOBER, 1978 The Council does not bind itself to according to the council of the council

The Council does not bind itself to accept the lowest or any Tender. W. D. WILSON, Clerk of the Council.

NEATH RURAL DISTRICT COUNCIL.

TRUNK ROAD, A.465-CADOXTON-ABERDULAIS. STREET LIGHTING.

TENDERS are invited for the SUPPLY and RECTION of 52 STEEL COLUMNS and 72 200-W SODIUM LAMPS. together with Auxiliary Gear and Wiring; also the Supply of 19 Wood Pole Brackets and One Wall Bracket. General Conditions of Contract, Specification and Bill of Quantities may be obtained, and Plans inspected, at the Engineer and Surveyor's Department. Council Offices, Orchard Street, Neath, on payment of 2.2s, which will be refunded on receipt of a bright of the Council Offices, or hand street on the Council Offices, or hand street of the Council Offices, or hand street or hand the Council Offices, or hand the Cou

I. H. K. THORNE, Clerk of the Council.

Orchard Chambers, 15 Orchard Street, Neath. 27th September, 1961.

CONTRACTS

BOROUGH OF BALLYMENA MAIN DRAINAGE-CONTRACT NO. 3.

MAIN DRAINAGE—CONTRACT NO. 3.

BALLYMENA BOROUGH COUNCIL Invites TENDES
for the LAYING of approx. 1,000 lin. vd. of n.
dia. SPUN-IRON PUMPING MAIN,
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Town Hall,
Ballymena,
Co. Antrim,
Northern Ireland.

DROITWICH BOROUGH COUNCIL

DROITWICH SEWERAGE AND SEWAGE DISPOSAL CONTRACT NO. 1.

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WATERS AND SPEPARED by the Engineers, A.H.; Brimingham, 2.

The Drawings may be seen at, and the General Conditions of Contract, Specification, Billing of Littles and Form of Tender may be obtained from the Conditions of Contract, Specification, Billing of Littles and Form of Tender may be obtained from the contract of the Undersigned, or of the Engineers of the Engineers of the Contract of the Contract with the Contract C

S. G. FOSTER, Town Clerk. Town Hall, Droitwich, Worcs, 2nd October, 1961.

MANCHESTER CORPORATION WATERWORKS.

HAWESWATER AQUEDUCT-CONTRACT S.P.7.

TENDERS are invited for the MANUFACTURE.
SUPPLY and DELIVERY and SITE WELDING and SITE WELDING WITH A CONTROL OF THE STATE OF THE STATE

EAST SHROPSHIRE WATER BOARD.

BROSELEY WATER SUPPLY EXTENSIONS AND RELIEF PIPELINE AT COALBROOKDALE.

TENDERS are invited for the CONSTRUCTION approx. 3,320 lin. yd. of 9in. and 6in. dia. 59ll-180N WATER MAINS, and incidental words, accordance with the Drawings, Specification abilis of Quantities prepared by the Engineers, A. K. WATERS AND PARTNERS, of 25 Temple Ros. Birmingham, 2.

WATERS AND PARTNERS, of 25 Temple 809.

Birmingham, 25 may be seem at, and the Condition The Drawn, 5 may be seem at, and the Condition The Drawn, 5 may be contained from the Brown of Tender may be obtained from the Brown of the Engineers on or after the 10th October, 1981.

on payment of a deposit of Three Guineas with will be refunded upon receipt of a bona-mod Temple and the return of all documents.

Scaled Tenders, on the form supplied and in the endorsed envelope provided, are to be delivered in NOVEMBER, 1961, not later than Noon on 188 of NOVEMBER, 1961, on undertake to accept the lower or any Tender.

GEORGE THOMAS.

GEORGE THOMAS. The Grove, Shifnal, Shropshire, 2nd October, 1961.

EAST SHROPSHIRE WATER BOARD. OVERDALE HADLEY LINK MAIN.

OVERDALE HADLEY LINK MAIN.

TENDERS are invited for the CONSTRUCTION of about 2,540 lin. yd. of 6in. dia. ASBESTOS-CEMBIN with the Drawings. Specification and lit. WATER MAIN, and incidental works, in accordance with the Drawings. Specification and lit. WATER AND PARTNERS, of 25 Temple Row, Birmingham, of Contract. Specification, Bills of Quantities with the Contract. Specification, Bills of Quantities with of the Engineers on or after the 10th October, on payment of a deposit of Three Guilnes will be refunded upon receipt of a bonal-flat lender will be re

GEORGE THOMAS, Clerk of the Board.

CHESHIRE COUNTY COUNCIL. SHREWSBURY-WHITCHURCH-WARRINGTON TRUNK ROAD, A.49.

WIDENING AT NORCOTT BROOK (2)-FROM SOUTH OF RADDEL LANE TO NORCOTT BROOK COTTAGE.

TENDERS are invited for WIDENING the ABOVE ROAD for a length of approx. 650 lin. yd. The works include Fencing. Drainage, Earthworks, Kerbing. Carlageway and Footway Construction.
Form of Tender, Conditions of Contract, Specification. Bill of Quantities and Plans may be obtained from the undersigned an payment of Five Guineas by cossed cheaue, which will be returned in the case of a bona-fide study of a bona-fide study of the County Council County Hall. Chester, in a plain sealed envelope county and the County Council Council County Council County Council Council County Council Council County Counci

west of any Tender.

C. G. DAY.
County Surveyor and Bridgemaster.
Surveyor's Department,
Backford Hall,
Near Chester.
21st Scytember, 1961.

T Y O F C A R D I F F.

CITY

CITY SURVEYOR'S DEPARTMENT.

PALACE ROAD RELIEF SEWER.

PALACE ROAD RELIEF SEWER.

FIXED-PRICE TENDERS are invited for the CONSTRUCTION of approx. 600 lin. vd. of 30lin. dia. FOW. SEWER. including Manholes, and ancillary morts.

Conditions of Tender, Specification, Billis of Quantities and Drawings may be obtained from the City Surveyor. to whom application should be made companied by a made payable to the Cardiff Cheuses and the Contract of the deposit will be refunded on receipt of a bona-fide Tender or the return of the Contract own of the Contract of the Cardiff Couments by the closing date.

Tenders will not be considered unless enclosed in a plain sealed envelope endorsed "Tender for Palace Road Relief and Sent by Registered Post or the Contract of the Cardiff, and sent by Registered Post or the Cardiff, and Registered Post or the Registered Post or the Registered Post or the Registered Post or the Registered Post or t

S. TAPPER-JONES,

City Hall. Cardiff. 25th September. 1961

URBAN DISTRICT OF WOLVERTON. CALVERTON HOUSE ESTATE.

TENDERS are invited for the ADVANCE PREPARA-TION (Road Foundations, Sewers, etc.) of this

ESTATE.

Documents from ENGINEER AND SURVEYOR.

Council Offices. Market Square, Stony Stratford, Bucks.

Tenders to be received by Noon on TUESDAY.

17th October, 1961.

HEBBURN URBAN DISTRICT COUNCIL.

CENTRAL AREA REDEVELOPMENT— 48 FLATS AND MAISONNETTES.

PART 104 DWELLINGS. FLOORING

TENDERS are invited for the LAYING of approx. 2,300 sq. yd. of THERMOPLASTIC TILE FLOORING. Details may be obtained from the Engineer and Surveyor, R. C. BESTOW, Engineer and Surveyor, Council Offices, Argyle Street, Hebburn. Tenders are to be forwarded to the Clerk of the Council by Noon, MONDAY. 9th October, 1961. The Council do not bind themselves to accept the lowest or any Tender.

W. KNGHORN. Clerk of the Council.

Council Offices, Argyle Street, Hebburn, Co. Durham. 25th September, 1961.

EAST ELLOE RURAL DISTRICT

WATER DEPARTMENT.

10IN. DIA. WATER MAIN.

TENDERS are invited for the LAYING of approx. 6.100 lin. yd. of 10in. dia. SPUN-IRON WATER MAIN, together with Valves, Hydrants, and ancillary works

MAIN, together with Vaives, Hydrants, and some works Bills of Quantities, Specification and Form of Tender may be obtained from the Engineer and Manager, at the address below, on deposit of a fee of £2 2s, which will be refunded an receipt of a bona-fide Tender not subsequently withdrawn. Plans of the proposals and the General Conditions of Contract (Institution of Civil Engineers, Fourth Edition, January, 1955) may be inspected on appointment at the Office of the Engineer, at the address below

below Completed Tenders, on the form provided, toget with all documents, should be returned to the unsigned, in a plain scaled envelope endorsed "Ten for Tolin. Water Main." to be received not the thin 10 a.m. on SATURDAY, 4th November, 19 the Council does not bind itself to accept lowest or any Tender.

J. C. PYWELL, Clerk to the Council.

Council Offices. Mattimore House. Holbeach, Spalding, Lincs.

FLINTSHIRE EDUCATION COMMITTEE.

TENDERS are invited for the SUPPLY and DELIVERY of SCHOOL STATIONERY and MATERIALS, NEEDLE-WORK MATERIALS and TEXTBOOKS to the various Schools in the County as from the 1st January, 1962. Samples of the Stationery and Needlework Mitterials, etc., must be inspected at this Office on Mitterials, etc., must be inspected at this Office on Mitterials, etc., must be inspected at this Office on Mitterials, etc., must be inspected at this Office on Mitterials, etc., must be inspected at this Office on Mitterials, etc., must be inspected at this Office on Mitterials, etc., must be inspected at this Office on Mitterials, etc., and the state of the state of

CONTRACTS

HIGH HOLBORN IMPROVEMENT.

HIGH HOLBORN IMPROVEMENT.

TENDERS are invited from contractors having considerable experience of road construction works, for the WIDENING of HIGH HOLBORN, between Holborn Place and Chancery Lane.

Form of Tender, Specifications, etc., and Drawings are obtainable from the Chief Engineer upon payment of £3 by crossed cheque or order made payable to the London County Council, which will be returned only the contract and other relevant documents may be inspected on personal application to Room 450D, County Hall, before payment of ee. Remittance by post should be addressed to the Chief Engineer, County Hall, Westminster Bridge, S.E.1.

No Tender received by the CLERK OF THE COUNCIL after 3 p.m. on MONDAY, 30th October, 1961, will be considered.

The Council does not bind itself to accept the lowest or any Tender.

STAFFORDSHIRE COUNTY COUNCIL.

COUNTY ROADS AND BRIDGES COMMITTEE. GREENFIELD ROAD (PART), OFF OVERHILL ROAD.

T. H. EVANS.
County Buildings,
Stafford.

BOROUGH OF TOTTENHAM.

DISPLAY BOARDING IN SCHOOLS.

TENDERS are invited for the SUPPLYING and FIXING of SUNDEALA BOARDING for display purposes at VARIOUS SCHOOLS in the Borough. Conditions of Contract, Specification and Form of Tender are obtainable from the Borough Englineer and Surveyor, Town Hall, Tottenham, N.15.
Tenders should the delivered, in the envelope provided, to the undersigned not later than 10 a.m. on WEDNESDAY, 16th October, 1961.
The Council do not bind themselves to accept the lowest or any Tender.

MEDNESDAY TAYLOR.
Town Clerk.

SOWERBY BRIDGE URBAN DISTRICT

TILING OF PUBLIC SWIMMING BATHS.

TENDERS are invited for the TILING of the PUBLIC SWIMMING BATHS (75ft. × 25ft.), HOLLINGS MILL LARE, Sowerby Bridge.

Documents can be obtained from the Engineer and Surveyor's Department. Beech Royd, Beech Road, Sowerby Bridge, on deposit of \$2 2s., which is retreased on receipt of a bona-fied Fender.

Tender—Baths." must be returned to the undersigned not later than 10 am. on MONDAY, the 16th October, 1961.

ALFRED WOMERSLEY.

ALFRED WOMERSLEY. Clerk of the Council.

Allan House, Sowerby Bridge

BOGNOR REGIS URBAN DISTRICT

STREET LIGHTING IMPROVEMENTS-PHASE III.

STREET LIGHTING IMPROVEMENTS—PHASE III.

FIXED-PRICE TENDERS are invited for GROUP "A"
and "B" FLUORESCENT STREET LIGHTING
INSTALLATIONS IN VARIOUS ROADS within the
Urban District, comprising the supply and Frection
of approx. 196 Stanton Column (Type III & Kt and 10.
approx. 196 Stanton Column (Type III & Kt and 10.
approx. 196 Stanton Rollman (Type III)
approx. 196

R. W. J. HILL. Clerk of the Council.

Town Hall,
Bognor Regis,
September, 1961.

S O U T H E A S T METROPOLITAN
REGIONAL HOSPITAL BOARD.

EXTENSION OF OUT-PATIENTS AND CASUALTY DEPARTMENTS, AND REACTION OF OPERATING THEATTES AND X-RAY DEPARTMENT AT LEWISHAM, LONDON, S.E.13.

5.E.13.

Approx. value of main Contract (including Subcontractors' Work below)—£300,000.

Approx. value of Sub-contract for Mechanical Engineering—£30,000.

Approx. value of Sub-contract for Electrical Installation—£18,000.

Bills of Quantities, etc., for the ABOVE SCHEME will be ready in about eight weeks for inviting TENDERS from selected building contractors and mechanical and electrical engineering sub-contractors. Applications from those desirous of being considered for inclusion in a selected list of tenderers, with names of three referees (one of whom should be capable of advising as to the applicant's financial standing), should reach the SECRETARY at 40, Eastbourne Terrace, London, W.2, by 20th OCTOBER, 1961.

CONTRACTS

LONDON COUNTY COUNCIL. LANCASHIRE COUNTY COUNCIL.

TENDERS will be invited from selected firms for DEVELOPMENT OF PLAYING FIELDS, ETC., at STANDISH C.E. PRIMARY SCHOOL, NELSON BRIARFIELD COUNTY SECONDARY SCHOOL, Applications to TENDER must be received by the COUNTY ARCHITECT, P.O. Box No. 26, County Hall, Preston, not later than MONDAY, 16th October, 1961, quoting Ref. A/CJ.

COUNTY BOROUGH OF

EDUCATION COMMITTEE.

EDUCATION COMMITTEE.

TENDERS arc Invited for the FOLLOWING in respect of WEST HAM SCHOOLS:

School Books: Stationery: Drawing Requisites:
Handwork and Individual Apparatus—Period of one year commencing 1st January, 1962.

Neederork Materials and Haberdashery: Laundry Materials and Haberdashery: Laundry 1st January 1962.

Forms of Tender, to be returned not later than 7th NOVEMBER, 1961, may be obtained from the undersigned.

No Tender will be received except in a plain sealed envelope which bears the words "Tender for "but shall not bear any name or mark indicating the sender.

R. OPENSHAW, Chief Education Officer.

Education Department, 95 The Grove, Stratford, E.15.

CITY AND COUNTY OF

TENDERS are invited for the SUPPLY and FREE DELIVERY to NEWCASTLE QUAY of DOCK RAIL 126.2lb. per yd., B.S. No. 11; also Points and Further particulars may be obtained at the Office of the CITY ENGINEER, Town Hall, Newcastle upon Tyne, 1.

CITY OF LEICESTER.

ABBEY STREET IMPROVEMENT.

TENDERS are invited from contractors experienced similar works for the FOLLOWING:

(a) 4,000 sq. yd. R.C. Carriageway Construction with Two Course Asphalt Surfacing:

(b) 1,600 sq. yd. Slabbed Footway Construction:

(c) Minor Surface Water Drainage.

(c) Minor Surface Water Drainage.

Full details and Forms of Tender are obtainable on the undersigned on the payment of One Guines, fundable on receipt of a bona-fide Tender.

The transport of the return of the Order 1961.

2.30 p.m., THURSDWN 266CTT M.I.C.E., City Surreyor.

PAIGNTON URBAN DISTRICT COUNCIL. WIDENING AND IMPROVEMENT OF PART OF PRESTON DOWN ROAD.

TENDERS are invited for the CONSTRUCTION of approx. SOlyd. of ROADS, Pavings and Road Drainage in the Construction of approx. Solyd. of ROADS, Pavings and Road Drainage in the Construction of the Constructi

SAMUEL HODSON, Clerk of the Council.

Municipal Offices, Oldway, Paignton.

CHISLEHURST AND SIDCUP

ERECTION OF 54 DWELLINGS—GATTONS REDEVELOPMENT ESTATE, NORTH CRAY, KENT.

Contractors wishing to TENDER should apply immediately to ENGINEER AND SURVEYOR, Manor House, Sidoup, enclosing £3 3s., refundable on receipt of a bona-fide Tender not subsequently withdrawn. thdrawn. Tender documents will be dispatched mid-Octol

CHISLEHURST AND SIDCUP

REPAINTING STREET LIGHTING COLUMNS.

TENDERS invited from experienced contractors for REPAINTING approx. 370 25ft. and 520 15ft. COLUMNS.

Applications to Surveyor, Manor House, Sidcup, with Two Guineas deposit.
Tenders to be returned by 20th OCTOBER, 1961.
T. W. FAGG.

Sidcup Place.

Sidcup Place, Sidcup, Kent,

HORNCHURCH URBAN DISTRICT

PRIVATE STREET WORKS—
MAKING-UP OF HOOD ROAD, MACLENNAN AVE.
AND SUTTONS AVE. (PART).

AND SUTTONS AVE. (PART).

TENDERS are invited for the MAKING-UP of the ABOVE-MENTIONED STREETS and PART of a STREET in the Urban District of Hornchurch. The works include Surface Water Drainage: the Laying of Precast Concrete Kerbs; the Reconstruction of existing Carriageways, both in Bitumen Macadam, and in Hardcore. Surface Macadam, Bitumen Macadam, and in Hardcore. Surface of new Footways, both in Precast Concrete Slab Paving and in Bitumen Macadam. The Drawings. Conditions of Contract. Specification and Bills of Quantities may be obtained from the Office of the Engineer and Surveyor, Council Offices. Billet Lane, Hornchurch, upon payment of a deposit of Three Guineas which will be refunded upon receils of a bona-fide Tender which is not subsequently withdrawn.

of a bona-fide Tender which is not subsequently of a bona-fide Tender which is not subsequently of a bona-fide Tender which is of Quantities must be returned to the undersigned not later than Noon on MONDAY, the 50th October, 61, second holds with the control of the control of the Council does not bind itself to accept the lowest or any Tender they may receive.

Clerk of the Council.

Council Offices. Hornchurch, Essex.

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CONTRACTS

SUPPLEMENT

OXFORDSHIRE COUNTY COUNCIL. CONSTRUCTION OF ROADS AT THE NEW COUNTY FIRE SERVICE HEADQUARTERS, KIDLINGTON.

TENDERS are invited for the CONSTRUCTION of approx. 300 lin. vd. of NEW ROAD, 18ft. In width. together with ancillary SURFACE WATER DRAINAGE Copies of the Forms of Tender, Conditions of Contract and Bills of Quantities may be obtained from the County Surveyor, 8 New Road Oxford, to whom Tenders in a plain sealed envelope endorsed "Tender or Fire Headquarters Roadworks" should be delivered not later than 12 Noon on WEDNESDAY, 18th October, 1961.

The Council do not blind themselves to accept the lowest or any Tender.

GERALD GALE BURKITT.

Clerk of the Council,

County Hall, Oxford. October, 1961.

C O U N T Y B O R O U G H

TENDERS are invited for the DEMOLITION of the FOLLOWING:—
(a) Properties comprising the Granville Street C.P.O. 1960.
(b) Properties comprising part of the Commercial Street No. 1 C.P.O. 1959.
To be te eithe separately or as one contract. Specific Incommental Dewinds of the Commercial Dewinds of the Commercial Dewinds of the Commercial Dewinds of the Comment of th Tenders to TOWN CLERK on or before MONDAY,

BOROUGH OF THORNABY - ON - TEES.

13 BUNGALOWS. TENDERS are invited for the ERECTION of 13 BUNGALOWS at SCALBY SQUARE.

Bills of Quantities and Form of Tender may be obtained from the Borough Engineer, Town Hall. Thornaby-on-Tees, upon payment of a deposit of 22 2s, which will be refunded upon receipt of a bona-fide Tender which is not subsequently withdrawn defect of the the control of the contr

A. STOCKWELL, Town Clerk.

BOROUGH OF MAIDENHEAD. A.308, MARLOW ROAD IMPROVEMENT-STAGE 1.

A.308, MARLOW ROAD IMPROVEMENT—STAGE 1.

The COUNCIL invites TENDERS for the CONSTRUCTION of approx. 5,000 sq. vd. of DRY LEAN CONCRETE CARRIAGEWAY FOUNDATION: 90 sq. vd. of Coated Macadam Base and Wearing Courses; the Provision and Laying of Coated Macadam Base and Wearing Courses; the Provision and Laying of Block Channel: the Construction of Footways and Grass Areas; the Provision of Gulles and Soakaways for Surface Water Drainge; Earthworks, Fencing, and all incidental works.

Drawings may be seen at, and Tender documents obtained from, the Office of the Borough Engineer and the Company of the C

or indication
me not later than WEDNESDAT, with
1961.
The Council does not bind itself to accept the
lowest or any other Tender.
STANLEY PLATT.
Town Clerk.

Guildhall, Maldenhead, Berks. October, 1961.

BOROUGH OF REDCAR. COATHAM ENCLOSURE—CONSTRUCTION OF ACCESS ROAD.

TENDERS are invited for the CONSTRUCTION of approx. 1.860 set, vd. of FLEXIBLE CARRIAGEWAY and Tarmacadam Surfacing, and the Provision and Laying of 380 lin. vd. of Precast Concrete Kerb and Channel. together with Gullies and 6in. dia.

Laying of Channel, together with Guilles and Guille Channel, together with Guilles and Guille Channel, Coatham Road Bills of Rediever House, Coatham Road Red Guille Engineer Ridley House, Coatham Road Red Guille Conditions of Contract may be inspected. Tenders must be delivered to the undersigned, in the official envelope provided, and endorsed "Coatham Enclosure—Construction of Access Road," not later than 10 a.m. on SATURDAY, 21st October, 1961.

HUGH CALDWELL, Town Clerk.

Municipal Buildings, Redcar

BOROUGH OF RYE.

SEWERAGE AND SEWAGE DISPOSAL WORKS.

SEWERAGE AND SEWAGE DISPOSAL WORKS.

TENDER documents are now being prepared for the ABOVE SCHEME. comprising the FOLLOWING:

(a) The compression of the FOLLOWING:

(b) The compression of the following of 15 in. to 36 in. dia Sewers, with Manholes. The greater part will be in reconstructing the existing sewerage system in the town.

(b) The Providing and Laying of about 3,000 my dia 16 in. to 21 in. dia Spun-iron of 17 in. to 21 in. dia Spun-iron of 18 in. dia Spun-iron of 18

CONTRACTS

NOTTINGHAMSHIRE C.C. LONDON-EDINBURGH-THURSO TRUNK ROAD, A.1. RE-ROUTING MARKHAM MOOR TO RANBY.

TRAFFIC SIGNS.

TRAFFIC SIGNS.

TENDERS are invited for the PROVISION and ERECTION of MOTORWAY-TYPE TRAFFIC SIGNS complete with Posts and Illumination Units on six miles of Trunk Road between MARKHAM MOOR and the form the County Surveyor, Shire Hall, Nottinghams, in the County Surveyor, Shire Hall, Nottingham, on payment of £2 deposit which will be returned on the receipt of a bona-fide Tender, not subsequently withdrawn.

Tenders, in the envelope provided, should be delivered to the undersignd not later than the First Post on FRIDAY, 3rd November, 1961.

The Council does not bind itself to accept the lowest or any Tender.

The Council does not bind term.

The Council does not bind term.

A. R. DAVIS.

Clerk of the County Council.

BOROUGH OF KING'S LYNN. CAMPBELL'S PUMPING STATION NO. 2.

CAMPBELL'S PUMPING STATION NO. 2.

TENDERS are invited for the CONSTRUCTION of a BRICK-BUILT MOTOR HOUSE and REINFORCED CONCRETE WET OF A SUMPS at a Site of HARDWICK ROAD King's SUMPS AND THE MET OF A SITE OF A SITE

E. W. GOCHER, Town Clerk.

Town Hall, King's Lynn,

BOROUGH OF SLOUGH. MAKING-UP OF AJAX AVENUE AND

GALVIN ROAD.

FIXED-PRICE TENDERS are invited from experienced civil engineering contractors for the CONSTRUCTION of approx. 7,200 sq. vd. of Covenay and 750 sq. vd. of Cycle 4,300 sq. vd. of Footway and 750 sq. vd. of Cycle Specifications, Bills of Quantities and Forms of Tender are obtainable from the BOROUGH ENGINEER. Town Hall. Slough, Bucks., on payment of a deposit of Two Guineas which will be refunded on recipit of a bona-fide Tender and the return of all documents. Drawings and Conditions of Contract may be inspected at the Borough Engineer's Office during normal office hours.

hours.

Tenders, on the prescribed form, must be returned, in the envelope provided, not later than 12 Noon, MONDAY, 30th October, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

TOKENEWINGTON BOROUGH COUNCIL.

TENDERS are invited from suitable contractors for DAILY COLLECTION and DISPOSAL of approx. 4 tons of KITCHEN WASTE from various sources in the Borough. Two-thirds of waste is from 500 Kerbside

is. Particulars and Forms of Tender from Borough gineer, Town Hall, Stoke Newington Church Street, Engineer, Town Hall, Stoke Newhyson, N.16.
N.16.
Tenders returnable to TOWN CLERK by 9 a.m., 20th OCTOBER, 1961.

CITY OF MANCHESTER.

CHARLESTOWN ROAD HOUSING SITE, MOSTON.

TENDERS are invited for the CONSTRUCTION of 550 sq. yd. of CARRIAGEWAY, 50 lin. yd. of 9in. Sewer, and ancillary works.
Tender documents (returnable by 9.30 a.m. on 30th OCTOBER, 1961) obtainable from the CITY SURVEYOR (Room 208), Town Hall, Manchester.

CITY OF MANCHESTER.

MILES PLATTING REDEVELOPMENT AREA

BUTLER STREET SITE.

TENDERS are invited for the CONSTRUCTION of 560 sg. yd. of CARRIAGEWAY, 44 lin. yd. of 15in. dia. Sewer, and anciliary works.

Tender documents (returnable by 9.30 a.m. on 30th OCTOBER, 1961) obtainable from the CITY SURVEYOR (Room 208), Town Hall, Manchester.

URBAN DISTRICT COUNCIL PORTSLADE BY SEA.

HIGHWAYS ACT 1959 (CODE OF 1892)

PRIVATE STREET WORKS:— CHALKY ROAD (PART). VALLEY ROAD (PART). STANLEY AVENUE SOUTH.

The Council invites TENDERS from experienced contractors for the MAKING-UP of the above private streets, and incidental works. Drawings and Conditions of Contract may be inspected during office hours in the department of the Engineer and Surveyor at the address below. Copies of the Specification, Bills of Quantities and Tender deposit of Three Guineas made payable to the Council, The deposit is returnable subject to receipt of a bona-fide Tender not subsequently withdrawn, and the return of all documents.

Tenders must be returned in a plain sealed envelope not bearing any name or mark indicating the sender, but endorsed "Tender for Private Street Works," to be received by the undersigned not later than 12 noon on WEDNESDAY, 18th October, 1961.

The Council does not bind itself to accept the towest or any Tender, and reserves the right to accept a separate Tender for any one street.

W. G. TOZER,

W. G. TOZER. Clerk to the Council.

Town Hall, Victoria Road, Portslade by Sea. 29th September, 1961.

CONTRACTS

HAMPSHIRE COUNTY COUNCIL TRUNK ROAD, A.30-DUMMER WITH KEMPSHOTT

BLIND MAN'S OAK IMPROVEMENT.

BLIND MAN'S UAN Improvement.

TENDERS will shortly be invited for the CONSTRUCTION of a SECOND CARRIAGEWAY in conjunction with the improvement of approx. 1 mile of the above length of Trunk Road which is approx. The works include Earthworks, Drainage, Lean-Mix Concrete, Macadam Surfacing, Hard Shoulders, and other incidental works.

Applications for particulars should reach the undersigned not later than 20th OCTOBER. 1961.

H. N. JENNER, County Surveyor.

SMERRILL IMPROVEMENT.

The Castle, Winchester. 27th September, 1961. GLOUCESTERSHIRE COUNTY COUNCIL.

TENDERS are invited for ABOVE WORKS as CIRENCESTER TO MALMESBURY ROAD, A.438, near Kemble, comprising Excavation, Carriagemy Diversion, Accommodation, and ancillary works. Documents from County Surveyor, Quay Street, Gloucester, on payment of a deposit of Five Pound payable to Gloucestershire County Council, refunded on receipt of a bona-fide Tender by 10 a.m. on 30th OCTOBER, 1961.

GUY H. DAVIS, Clerk of the County Council

Shire Hall, Gloucester,

BOROUGH OF DARTFORD

TOWN CENTRE APPROACH ROADS-PART II.

TOWN CENTRE APPROACH ROADS—PART II.

TENDERS are invited for SUPPLY and ERECTION
of 75 COMPLETE LIGHTING UNITS, comprising 25th.
Reinforced Concrete Columns and 400-W MBF/U
Lamps and Lanterns. The work includes Removal of
existing lighting equipment.

The Form of Tender and other documents can be
obtained on application to the undersigned upon payment of a deposit of \$2 2s, which will be refunded
on receipt of a bona-fide Tender and the return of
all documents supplied, other than one copy of he
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THOMAS ARMSTRONG,

BOROUGH OF MAIDSTONE (RE-ADVERTISEMENT.)

SHEALS CRESCENT AND MILL STREET IMPROVEMENTS.

TENDERS are invited for the SUPERELEVATION of SHEALS CRESCENT with Bitmac and Cold Asphalt, and the RECONSTRUCTION of MILL STREET with Concrete and Hot Rolled Asphalt. Details from Borough Engineer, 1961. Closing date: 23rd OCTOBER, 1961. Town Clerk.

BOROUGH OF MAIDSTONE GARAGES AND HARDSTANDINGS.

TENDERS are invited for 161 GARAGES, including Roads and Drainage Works, and Concrete Hardstandings Yehicles, as SHEPWAY and PARK WOOD CONTROL CONTROL OF THE STATE OF T All gocuments from the Bolovair Calment, Avenue.

Manufacturers of prefabricated garages may submit Tenders for this work.

Tenders must reach me by 9 a.m. on 14th NOVEMBER, 1961. T. SCHOLES. Town Clerk.

CITY OF SALFORD

IMPROVEMENT OF WEASTE LANE.

IMPROVEMENT OF WEASTE LANE.

FIXED-PRICE TENDERS are invited for the WIDENING and RESURFACING of WEASTE LANE from its lunction with ECCLES OLD ROAD to LIVERPOOL SCOPEs of the General Conditions, Specification, Bill of Quantities, and Form of Tender may be obtained from, and the Drawing of the Work inspected at, by City Engineer and Surveyor's Office, Town Hall, Salfox, Lancs.

Tenders, enclosed in the envelope provided, and bearing no other identification, must be delivered to the undersigned not later than 10 a.m. of WEDNESDAY, 1st November, 1961.

R. RIBBLESDALE THORNION, Town Clerk.

LEEDS REGIONAL HOSPITAL BOARD. TO HEATING CONTRACTORS.

FIXED-PRICE TENDERS are invited for CARRYING OUT UPGRADING of NEATING AND HOT WATE SUPPLY SEWICEL IN 18 PSECHT STREET, BLOCK.

Applications of Neating American and Drawings, accompanied by a deposit of £2 as and Drawings, accompanied by a deposit of £2 as and Drawings, accompanied by a deposit of £2 as the first of the Regional Engineer at the undermost to the Regional Engineer at the undermost address not later than 12 Noon on WEDNESSA.

A copy of the Drawings, but to the Leeds Regional Nospital Bourset of the Leeds Regional Nospital Bourset of Tender and Company of the Drawings, but inspected at the Office of MESSRS. PASHLER AND PARTNERS (Consultational Engineers), City Chambers, infirmary Street, Leeds, Sealed Tenders, in the endorsed envelope provider must be delivered to the undersigned not later list.

12 Noon on THURSDAY, 16th November, 1981.

The Board does not bind itself to accept the lower or any Tender.

WM. A. SHEE, Secretary to the Board.

BUCKS. COUNTY COUNCIL. LONDON-FISHGUARD TRUNK ROAD, A.40.

A.40/A.413 JUNCTION IMPROVEMENT-

TENDERS are invited for ROADWORKS (approx. 600vd.). comprising Widening in Rolled Concrete, Channelling in Concrete, Channelling in Concrete, Kerbing, Provision of Traffic (slands, Drainage, Asphalt Surfacing, and ancillary

gots.

Downerts may be obtained from the County Survey County Offices. Aylesbury. on deposit of a bona-fide Tender.

Drawings may be seen at the Offices of the County Surveyor's Department, Park Street. Aylesbury. Tenders must reach the undersigned by 10 a.m. on MONDAY. 30th October, 1961.

R. E. MILLARD, Clerk of the Council.

County Hall. Aylesbury. September, 1961.

HAMPSHIRE COUNTY COUNCIL.

COUNTY ROADS AND BRIDGES.

ALTON URBAN DISTRICT. B.3004, PAPER MILL LANE.

TENDERS will shortly be invited for the REALIGAMENT and RECONSTRUCTION of S00 lin. yd.
d the ABOVE ROAD.
The works include Excavation, Road Foundations in
Greyel, Lean Concrete, Bituminous Macadam, Drainage,
and other incidental works.
The Contract will not include a Price Variation

The Control will not missed a Price Variation (austication for particulars should reach the under-signed not later than MONDAY, 16th October, 1961. The Council do not undertake to accept the lowest or any Tender.

H. N. JENNER, County Surveyor.

BOROUGH OF FINCHLEY.

CONSTRUCTION OF PUBLIC CONVENIENCE-

STANHOPE ROAD, N.12.

TENDERS are invited for the CONSTRUCTION of the ABOVE-MENTIONED PUBLIC CONVENIENCE. Conditions of Contract may be seen at, and Draw-mention of the Contract may be seen at, and Draw-mention of the Contract may be seen at, and Draw-mention of the Contract may be seen at, and Draw-mention of the Contract may be seen at, and Draw-mention of the Contract may be seen at, and Draw-mention of the Contract may be seen at the Contract

R. M. FRANKLIN, Town Clerk.

BOROUGH OF HENDON. NEW BRENT STREET HOUSING SITE-

The BOROUGH COUNCIL invites TENDERS for improvement of FOSTER STREET and CONSTRUCTION of LAY-BY off Foster Street, Hendon, N.W.4.

The BOROUGH COUNCIL invites Tender, Speciation and Council of Street Street, Hendon, N.W.4.

Begins and Council of Street Street, Hendon, N.W.4.

Begins and Surveyor, to whom applications for the documents must be made not later than 20th october 1961, accompanied by a deposit of \$2.2 s. which will be returned on receipt of a bona-fide render on the form provided and not subsequently withdrawn. Cheques should be made payable to Hendon Corporation.

Tenders must be received by the 10th NOVEMBER, 1981.

This invitation to tender is subject to certain terms and conditions, particulars of which will be forwarded to each tenderer.

R. H. WILLIAMS.

R. H. WILLIAMS, Town Clerk.

LEATHERHEAD URBAN DISTRICT

TENDERS are invited for GRADING, SEEDING and FOOTPATH WORKS at GREAT BOOKHAM. Approx. was to be graded, 3.30 sq. vd.
Tender documents obtainable from the Engineer and Surveyor's Department, Red House, Leatherhead. Tenders, in envelopes provided, to the undersigned by Noon, FRIDAY, 20th October, 1961.

J. EDE. Clerk of the Council.

MILLIONS OF POUNDS? worth of work SECURED by TENDERS PREPARED by Britain's Top Private ESTIMATOR. Also help and advice on alle organisation. Large or small contracts. Country-wide coverage.—Consult: R. J. CARR, 73 Leadenhall Street, London, E.C.3. Telephone: Avenue 9676-1120.

For Contracts received too late for classification see page 1677

APPOINTMENTS VACANT

MONTGOMERYSHIRE COUNTY

HIGHWAYS DEPARTMENT.

APPLICATIONS are invited for the FOLLOWING:

(a) Engineering Assistants on Grades A.P.T. II

(£815-£960) and A.P.T. III (£960-£1.140),

according to qualifications and experience.

(£960-£1,140),

Particulars and Forms of Application may be

obtained from the undersigned.

P. E. WHITE.
Clerk of the County Council.

County Offices, Weishpool. September, 1961.

APPOINTMENTS VACANT

WEST SUFFOLK COUNTY COUNCIL. OXFORDSHIRE COUNTY COUNCIL.

APPLICATIONS are invited for the POST of ASSISTANT DIVISIONAL SURVEYOR in the Highways Department on Grade A.P.T. 1-11 (5645-5960). Applicants must have had three years' training as a Highway Engineer.

The appointment is permanent and superannuable, subject to N.J.C. Conditions of Service, and medical examination. Approved removal expenses are payable. Vehicle provided if not car owner.

Applications, on forms obtainable from the EUNITY SURVEYOR. Manor House, Bury St. Edunds, to be received by MONDAY, 16th October, 1961.

ROROUGH OF TOTTENHAM.

APPLICATIONS are invited for an ESTABLISHED POST of ESTIMATING AND COSTING SURVEYOR in the Borough Engineer and Surveyor's Department. A.P.T. Grade II (£815 to £960 p.a. plus London Weighting Allowance, Dommencing salary according to experience and ability. Application Form and Conditions of Appointment, which should be returned not later than the 14th OCTOBER, 1961. are obtainable from the Borough Engineer and Surveyor (CJ), Town Hall, Tottenham. N.15.

M. LINDSAY TAYLOR, Town Clerk

BOROUGH OF TOTTENHAM.

APPLICATIONS are invited for an ESTABLISHED POST of CIVIL ENGINEERING ASSISTANT in the Borough Engineer and Surveyor's Department. A.P.T. Grade II (£815 to £960 p.a. plus London Welyntus. allowance). Commencing salary according to experience

Allowance). Commencing salary according to experimental allowance). Commencing salary according to experimental and the professional training and have passed the intermediate, or equivalent, leading and they passed the intermediate, or equivalent, examination of an appropriate professional body. Application Form and Conditions of Appointment, which should be returned not later than the 14th OCTOBER, 1961, are obtainable from the Borough Engineer and Surveyor (Cl). Town Hall, Tottenham, 15.

M. LINDSAY TAYLOR, Town Clerk

BASILDON DEVELOPMENT

CHIEF ENGINEER'S DEPARTMENT.

APPOINTMENT OF DEPUTY CHIEF ENGINEER.

APPLICATIONS are invited for this POST within the Corporation's Grade XI salary (£2,025-£2,345). Applicants should be Corporate Members of the institution of Civil Engineers, and should have received suitable training in the profession. They should have had at least 10 years subsequent experience with a local Authority or New Town Corporation, or

had a least to a local Authority or New Town Corporation, or equivalent.

The duties of the post will be to deputise for the Corporation's Chief Engineer and to assist him with the administration of the engineering projects. These are likely to include main roads, bridges, main sawers, sewage treatment works, and roads and sawers in housing estates, industrial areas, town centre, etc. The appointment will be superanuable and subject to three months' notice on either side.

Applications, stating age, education, qualifications, and giving full details of experience, together with the names of three referees, as to technical ability, should be sent to the GENERAL MANAGER, Basildon, Essex, not later than MONDAY, 16th October.

LINCOLNSHIRE RIVER BOARD.

APPOINTMENT OF ASSISTANT ENGINEERS (TWO).

APPLICATIONS are invited for the ABOVE-MENTIONED PERMANENT APPOINTMENTS at the Load's head office, set a salary in accordance with Gode A.P.T. II (£815-£960 p.a.), or Grade A.P.T. III (£950-£1,140 p.a.), dependent upon experience, with prospects of promotion to Grade A.P.T. IV (£1,140-£1,310 p.a.).

Applicants must have passed Parts I and II of the Associate Membership Examination of the Institution of Civil Engineers, or have gained exemption therefrom.

of Civil Engineers, or have gained exemption thereform. In First instance, the persons appointed will be more on structural and hydraulic designs for an extensive programme of capital works. A 5-day week is in operation.

The appointments are subject to the Local Government Superannuation Act, and the National Joint Council Conditions of Service.

Applications, stating age, quartersess of two referees, and the names undersigned to arrive not later should see seer true undersigned to arrive not later than Noon on MONDAY. The Hitchippon.

50 Wide Bargate.

50 Wide Bargate, Boston, Lincs.

HEREFORDSHIRE WATER BOARD. RESIDENT ENGINEER-CONTRACT NO. 23.

RESIDENT ENGINEER—CONTRACT NO. 23.

APPLICATIONS are invited for the APPOINTMENT of a RESIDENT ENGINEER to supervise the
construction of water supply works in the Bromyard
district of Herefordshire, under the direction of the
Consulting Engineers, MESSRS, RICHARDS AND
DUMBLETON, Birmingham and Portmadot.
The work in birmingham and Portmadot.
The work in birmingham and Cast-iron Pipes up
to Simingham and the superior of the construction of the
top of 12 months, starting during November,
1961, with the prospect of extension for a further two
years for the supervision of the construction of treatment works, reinforced concrete reservoirs, and
additional pipelaying.
A Resident Engineer on similar works for a minimum
period of seven years. Corporate Membership of the
Institution of Civil Engineers, and age between 35
and 60 years, would be preferred membership of the
Institution of Civil Engineers, and age between 35
and 60 years, would be preferred,
The salary will depend on qualifications and
experience, but will not be less than £1.200 p.a., of
which £200 will be regarded as expenses.
The successful cannot the works, and will be paid a
car allowance on the Board's standard scales.
Applications, stating age, qualifications, details of
experience, present and past appointments for the
past 10 years, and names and addresses of Consulting
Engineers under whom the applicant has recently
been engaged, are to be sont in a plain envelope
endorsed "Resident Engineer" in a plain envelope
signed not later than FRIDAY, 20th October, 1961.

H. R. PENHALE.

H. R. PENHALE. Clerk of the Board.

Reay House. 49 Bodenham Road, Hereford.

APPOINTMENTS VACANT

SUPPLEMENT

APPLICATIONS are invited for the FOLLOWING APPOINTMENTS on the technical staff of the Highways Department:

(a) Department:

(b) Candidates should be Associate Members of the Institution of Civil Engineers, or hold equivalent qualifications by examination, and should have had experience of surveying, and the design, construction and miscensis of the institution of Civil Engineers.

(b) Assistance of highway bridges.

(c) Candidates should be Associate Members of the institution of Civil Engineers. Or hold equivalent qualifications by examination, and should have had experience in the preparation and supervision of road improveding the preparation and supervision of the preparation and supervision of the preparation and supervision of th

County Hall, Oxford, September, 1961.

COUNTY BOROUGH OF HUDDERSFIELD.

WATERWORKS DEPARTMENT.

APPOINTMENT OF ENGINEERING ASSISTANT.

APPOINTMENT OF ENGINEERING ASSISTANT.

APPLICATIONS are invited for the POST of ENGINEERING ASSISTANT in the Waterworks Engineer's Department. Salary A.P.T. III (£960-£960-£960)

Applicants should hold a Degree in Engineering, or have passed Parts 1 and 2 of the Institution of Civil Engineers, and have at least five years' experience (including training period).

Preference will be given to persons having experience with a Water Undertaking.

Preference will be given to persons having experience with a Water Undertaking.

Of Conditions of Ser subject to the National Scheme of Conditions of Ser subject to the National Scheme of Conditions of Ser subject to the National Scheme of Conditions of Ser subject to the Water Engineer and Manager, 24 Ramsden Street, Huddersfield, not late.

Canvassing will disquality.

HARRY SANN.

Town Clerk.

HARRY BANN, Town Clerk.

Town Hall, Huddersheld. 26th September, 1961.

BOROUGH OF HESTON & ISLEWORTH.

APPOINTMENT OF SENIOR ENGINEERING

ASSISTANT.

APPLICATIONS are invited for the POST of SENIOR ENGINEERING ASSISTANT at a salary in accordance with Grade V of the A.P.T. Division of the National Joint Council's Scale of Salaries (£1,310-£1,480 plus London Weighting).

Candidates should have good civil or municipal engineering experience and must have passed the Final Examination of either the Institution of Civil Englerer our Municipal Engineers.

Engineer and Engineer and Engineers and Engineers of the Council Engineer and Surveyor, B.S. Lampton Road, Hounslow, must be returned to him not later than 23rd October, 1951.

Will applicants please quote Code CI.

D. MATHIESON.

Town Hall.

Town Hall, Hounslow, Middx.

HERNE BAY URBAN DISTRICT ENGINEER AND SURVEYOR'S DEPARTMENT.

APPLICATIONS are invited for the FOLLOWING APPOINTMENTS:

(a) Deputy Engineer and Surveyor—A.P.T.

(b) Engineering Assistant—A.P.T. Grade III.
Application for post (a) must be Associate Members of the I.C. or M.K. and have had experience in the Department of a Municipal Engineer and Surveyor.

Applicants for post (b) should have had experience in road construction, sewerage, and general engineering works.

Both appointments are subject to N.J.C. Conditions of Service.

Both appointments are subject to N.J.C. Conditions of Service.

Assistance will be given in obtaining housing accommodation.

Applications, on forms obtainable from me, must be returned not later than THURSDAY, the 12th October, 1961.

G. A. BAGNALL, Clerk of the Council.

Council Offices, Herne Bay,

STAFFORDSHIRE POTTERIES

PIPELAYING INSPECTORS.

The Board invite APPLICATIONS from suitable candidates for TWO PIPELAYING INSPECTORS with experience in the laying of large-diameter trunk mains, particularly steel mains with Viking-Johnson

mains, particularly steel mains with Viking-Johnson couplings.

The salary will be £12 per week plus £3 per week subsistence allowance.

It is estimated that the period of the appointments will be a months and the salary of the period of the appointments. The salary is a salary of the period of the appointment of the salary of the period of the perio

alification. C. V. BROWN, M.I.C.E., M.I.Mech.E.,
M.I.W.E.,
Engineer and Manager and Cleri
Albion Street,
Hanley,
Stoke-on-Trent. and Clerk.

APPOINTMENTS VACANT

SUPPLEMENT

JAMAICA.

WATER SUPPLIES BRANCH. CHIEF ENGINEER.

CHIEF ENGINEER.

Duties: To take full responsibility for the direction, supervision and all technical functions of the Water Supplies Branch, and co-ordinate the various elements of the Water Supplies Programme.

Qualifications: Candidates, up to 50 years of age, must have a University degree recognised by the institution of CVII Engineers, with a tilest of the programme of the

BOROUGH OF CROYDON. COUNTY

SENIOR ASSISTANT ENGINEER (Qualified) RE-QUIRED for design of reinforced concrete road bridges and viaduct, with subsequent opportunities for experi-ence on other interesting civil engineering works. Salary £1,352,£1,325 p.a., commencing according to qualifications and experience. Yev-day week of 3B hours. Established appoint-ment of the property of the contraction of

ment. Pension scneme.

facilities.

Write to the BOROUGH ENGINEER. Town Hall.

Croydon, for further particulars and Application Form.

Closing date: 16th OCTOBER. 1361.

BOROUGH OF WILLESDEN. BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

APPLICATIONS are invited for the FOLLOWING APPOINTMENTS in the Building Surveyor's Section:
(a) General Assistants (2 Posts), within Grade A.P.T. II (£815-£960 p.a.).
(b) General Assistant, within Grade A.P.T. I (£015-£960 p.a.).
London Weithing is payable in addition to both above salaries.

London Weighting is payable in addition to both above salaries, but applicants should have had experience in the general work of a Building Surveyor's Office and the administration of Building Surveyor's Office and the administration of Building By-laws and the Town Planning Acts. For one of the (a) posts, experience of dealing with the control of advertisements will be an advantage.

The Council are prepared to assist by making a mortgage advance for house purchase, and making a contribution up to £25 towards the cost of removal expenses.

a contribution to be a considered to the constant of the const

BOROUGH OF WILLESDEN.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

APPLICATIONS arc invited for the APPOINT-MENT of CHIEF ENGINEERING ASSISTANT (Works). Salary £1,505-£1,670 p.a. usalified as Chartered Civil or Municipal Engineers, and have had at least 10 years' experience subsequent to training. The person appointed will be responsible under the Assistant Civil Engineer for highway maintenance, the organisation and control of civil engineering direct works state that the properties of the control of t

BOROUGH OF WILLESDEN. BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

APPOINTMENT OF TOWN PLANNING ASSISTANT, GRADE A.P.T. V.

APPLICATIONS are invited for the APPOINT-MENT of TOWN PLANNING ASSISTANT. Salary A.P.T. V (£1.310-£1.480 p.a. plus London Weighting). Candidates must possess appropriate qualifications and have had good experience in dealing with planning applications and general Town Planning administration mortgage advance for house purchase, and making a contribution up to £25 towards the cost of removal expenses.

a contribution by the second of Application may be expenses. Setalis and Form of Application may be obtained from the BOROUGH ENGINEER. Town Hall. Dyne Road, Kilburn, N.W.6. and must be returned to the undersigned not later than 10 a.m. on MONDAY, 23rd October, 1961.

(Signed) R. S. FORSTER. Town Clerk.

WINSFORD URBAN DISTRICT COUNCIL.

WINSFORD SEWERAGE-PHASE I.

RESIDENT ENGINEER.

The Council will shortly be commencing construction of the first phase of a major sewerage and sewage disposal scheme under the direction of MESSRS. WARD. ASHCROFT AND PARKMAN, and invites applications from suitably qualified and experienced Engineers for the POST of RESIDENT ENGINEER. The first phase is likely to last for a period of nine. The first phase is likely to last for a period of nine. The salary will be at the rate of £1.500 p.a., and ayment for site travelling on the Casual Users Scale for a car not exceeding 1.199 c.c. will be made. Temporary housing accommodation for the period of employment will be made available, or a subsist-ment of the period of employment will be made available, or a subsist-included the period of employment will be made available, or a subsist-included the period of employment will be made available, or a subsist-included the period of employment will be made available, or a subsist-included the period of employment will be made available, or a subsist-included the period of employment will be made available, or a subsist-included the period of employment will be made available, or a subsist-included the period of employment will be made available, or a subsist-included the period of employment will be made available, or a subsist-included the period of employment will be made available, or a subsist-included the period of employment will be made available, or a subsist-included the period of employment will be made available, or a subsist-included the period of employment will be made available, or a subsist-included the period of employment will be made available, or a subsist-included the period of employment will be made available, or a subsist-included the period of employment will be made available, or a subsist-included the period of employment will be made available, or a subsist-included the period of employment will be made available, or a subsist-included the period of employment will be made available, or a period of employment will be made available.

N. BROWNING. Clerk of the Council. Council Offices, Over Hall, Winsford, Ches.

APPOINTMENTS VACANT

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

APPOINTMENT OF ENGINEERING ASSISTANT-

GRADE III/IV.

APPLICATIONS are invited for the PERMANENT APPOINTMENT of ENGINEERING ASSISTANT on Grade III/IV (£960-£1.510). The commencing salary tions and experience.

Candidates must have passed the Final Examination of the Institution of Civil Engineers or of the Institution of Civil Engineers or of the Institution of Municipal Engineers, and have had good general experience. the Council will allocate a Corporation house for the post, subject to the merits of the tase being satisfactory to the interviewing Committee.

The Department works a 5-day week.

The Department works a 5-day week.

The Department works a Surveyor, Town Mail, Barrow-in-Furness, to whom completed Application Forms must be returned not later than MONDAY.

23rd October, 1961.

LAWRENCE ALLEN.

Town Hall. Barrow-in-Furness

COUNTY BOROUGH OF BURNLEY.

APPLICATIONS are invited for the APPOINTMENT of HIGHWAYS INSPECTOR in the Corporation Highways Department at a salary in accordance with the Misc. Division Grade V of the National Scales (Applicants must have had a wide experience will be given to Registered Students and Associates of the Institute of Highways and Works Superintendents. The normal working hours for this position are 42 hours per week.

The normal working hours for this position are 42 hours per week.

The normal working hours for this position are the Borough Engineer, 22/24 Nicholas Street. Burnley, to whom applications should be returned not later than SATURDAY. 21st October, 1961.

C. V. THORNLEY.

Town Clerk.

BOROUGH OF SOUTHALL APPOINTMENT OF CLERK OF WORKS

APPLICATIONS are invited for the ABOVE POST in the Borough Engineer's Department, for the supervision of extensive road inprovements by contract. over a period of 18 months, at an inclusive salary of £860 p.a. must have considerable experience of road construction. Forms of Application, obtainable from the Borough Engineer, Town Hall, Southall, must be returned to him by 23rd OCTOBER, 1961.

6th October, 1961.

Town Clerk.

BOROUGH OF TOTTENHAM.

APPLICATIONS are invited for the ESTABLISHED POST of ASSISTANT ROADS AND SEWERS SUPER. INTENDENT in the Borough Engineer and Surveyor's Department. A.P.T. Grade II (£815 to £960 p.a. plus London Weighting allowance). Car allowance

The person appointed will be required to reside in a house in the Central Depot, for which an appropriate rental will be payable.

Applicants must have had extensive and practical experience, preferably with a local authority, in the addition, they must possess the ability to control large numbers of workmen.

Application Form. Conditions of Appointment and further particulars from the Borough Engineer (CI). Town Hall, Tottenham, N.15, to whom applications of Ctober, 1961.

M. LINDSAY TAYLOR, Town Clerk

FROME URBAN DISTRICT COUNCIL. APPOINTMENT OF CLERK OF WORKS.

APPLICATIONS are invited for the POST of CLERK OF WORKS for the Council's Development Scheme of 110 Develings at The Mount, Frome. Applicants must possess a sound knowledge of all building trades, and have had experience in supervising the erection of houses and flats.

The salary offered is £825 p.a., and the appointment is for an estimated period of 18 months' duration.

The advantment is for an estimated period of which the for an estimated period of the duration.

Metalon. disclosing any relationship to a member or senior officer of the Council, stating age, experience, qualifications, and giving the names of two referees, must reach the Engineer and Surveyor. Municipal Offices, North Parade, Frome, not later than MONDAY, the 16th October, 1961.

Canvassing, either directly or indirectly, will

A. W. YOUNG. Clerk of the Council

Municipal Offices. North Parade. Frome. 26th September, 1961.

WALTON AND WEYBRIDGE

APPOINTMENT OF ENGINEERING ASSISTANT-

APPLICATIONS are invited for the APPOINTMENT of ENGINEERING ASSISTANT at a salary in accordance with Grade A.P.T. III of the National Scale. A fixed car allowance of £125 per annum will be paid, and housing accommodation will be made available if considered necessary.

Applications, on forms to be obtained from the Engineer and Surveyor at these Offices, must reach me not later than MONDAY 22nd of October, 1961.

EDWARD G. HUBBARD, Clerk of the Council.

Council Offices, Walton-on-Thames, Surrey, 5th October, 1961.

Sth October. 1961.

ENGINEERS. experienced in structures and roadworks. REQUIRED for contracts in London and
experience Counties.—Writen giving full details of
experience counties.—Writen giving full details of
experience counties.—REPERSENTERICK AND SON
(CONTRACTORS), LTD., 455 Old Ford Road, London,
E.3.

APPOINTMENTS VACANT

COUNTY BOROUGH OF COUNTY BOROUGH OF BLACKPOOL BOROUGH SURVEYOR'S DEPARTMENT.

APPLICATIONS (by 20th OCTOBER, 1961) invited for ASSISTANT BUILDING SUPERINTENDENT for direct works of maintenance on municipal properties Salary £685, rising to £760 p.a. 5-day week. Forms, etc., from ARTHUR HAMILTON, BOFOUGH SURVEYOF, P.O. Box 17, Municipal Office, Blackpool.

Borough Surveyor, P.O. Box 17, Municipal Office, Blackpool.

Engineer REQUIRED by an expanding cin genering company in Bedfordshire, First-class opportunity for keen, ambitious man. Experience and sever construction.—Write spiving details on road and sever construction.—Write spiving details on road and sever construction.—Write spiving details of the spiving detai

LTD., 21 Lynton Street, Wolverhampton, Staffs.

SITE QUANTITY SURVEYOR REQUIRED immediately for sewage works contract near Luton, Ben, with the sewage works contract near Luton, Ben, with measurements on civil engineering works. Passiste measurements on civil engineering works. Passiste measurements on civil engineering works. Passisten works and salary required, to J. L. EVE CONSTRUCTION CO., LTD., 17 Hillside, Ridgwar, Wimbledon, S.W.19.

GABRIEL MACHINERY CO., LTD.

Invite applications for the position of AREA REPRESENTATIVE. This rapidly expanding congan has recently been appointed sales and service distributors for David Brown construction equipment the whole of S.E. England. The successful applican will be an experienced earthmoving representative capable of negotiating at high level. The need is to introduce a range of tractors unequalled in qualification of the provided, and will be provided to the provided to

The Sales Director. GABRIEL MACHINERY CO., Palmers Lane Fried Middle

ENGINEER REQUIRED for after sales service of Buildmaster rotary tower cranes. Must be full conversant with this type of machinery. A.C. 3-shate control circuit and remote control. Must have god head for heights and he prepared to travel. Driving the control circuit and remote control. Must have god head for heights and he prepared to travel. Driving the control of the control of

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n conneence, giving age, complete details of training, experience and salary required.

CONTRACTS AREA SUPERVISOR.—(1) Have you had experience in supervising and organising medium-sized and small civil engineering contracts (2) Have you had experience in preparing estimates for the above type of contracts? (3) Can you can between 30 and 40 years of age? (3) Are you between 30 and 40 years of age? (4) Are you between 30 and 40 years of age? (5) In the South with a good salary and prospects, pensionable, and a car provided?—If so, apply in strict confidence, giving complete details, experience, age, present salary, to Box V.4908, "The Contract Journal."

A SSISTANT SURVEYOR REQUIRED for the liable office of building and civil engineering contractors in Westminster. Age 20-25. Applicants must be experienced in all phases of building surveying, from site measuring to assisting with preparation of fall accounts.—Apply, in confidence, giving age, complete details of training, experience and salary required, in C. J. SIMS, LTD., 2 Victoria Street, S.W.1.

M. J. GLEESON (CONTRACTORS), LTD.

Wish to appoint a CONTRACTS MANAGER is undertake complete supervision of large building the tracts in the London area. The position reads and the many with marked ability of the contracts appointment carrying a commensurate salary, and the successful candidate will have a proven read success in a previous similar position.—Please with with full details of age and previous appointments appointment carrying a commensurate salary, and the successful candidate will have a proven read successful details of age and previous appointments quoting Ref. CM/1, to:

Mr. P. M. Healy, Personnel Officer, M. J. GLEESON (CONTRACTORS), LTD., Haredon House, London Road, North Cheam, Surre

ESTIMATOR REQUIRED for building and dividence in Surrey. Contracts £50,000 to £500,000. With stating age, experience, and salary required, to far 1074, c/o Murray and Phelan, Ltd.. Columbia Hoss. Aldwych, W.C.2.

Aldwych, W.C.2.

BUYER WANTED by medium-sized building and civil engineering contractors with head did situated in Surrey. Must be fully conversant with bills of quantities and able to take-off quantities drawings.—Write, stating age, experience, and sain required, to Box 1075, c/o Murray and Phelin, Lik. Columbia House, Aldwych, W.C.2.

AGENT and GENERAL FOREMAN REQUIRED by expanding established civil engineering contrasts for contracts valued at £30,000 to £150,009 and preferred. Good opportunity exists in prognism and preferred. Good opportunity exists in prognism organisation. Initial contract for nine more preferred. Good opportunity exists in prognism of the contract for nine more present expensive the contract for nine more preferred. The contract for nine more preferred to the contract of the contra

APPOINTMENTS VACANT

SENIOR GENERAL FOREMAN REQUIRED by THE MITCHELL CONSTRUCTION CO., LTD., for appointment on the 1st November at Drakelow Crower Station, superstructure contract. The successful applicant will be placed on the monthly paid staff and will be eligible to the supersanuation scheme after on the supersanual s

HUSSEY, EGAN AND PICKMERE, LTD.

a number of vacancies are available for SENIOR and IUNIOR ENGINEERS on contract sites in England and Wales. Permanent posts with attractive prospects. Apply, with details of education, training and experience, to

HUSSEY, EGAN AND PICKMERE, LTD., 24 Calthorpe Road, Edgbaston, Birmingham, 15.

WORKS MANAGER REQUIRED by plant hire and contracting company. Situated in Middlesex. Essential thoroughly experienced in all types of contractors plant machinery, excavators, Drotts, dozers, compressors, etc. With strong personality to handle workshop and operator personnel. Four-figure salary and car provided.—Write Box V.4872, "The Contract journal."

ournal.

AGRICULTURAL and INDUSTRIAL FITTERS READJURED for our modern agricultural division.
Applicants must be experienced in the repairs and
servicing of tractors, farm machinery or industrial
equipment. Good rates of pay. Bonus scheme.
Assistance with removal expenses. If required.—Apply.
in writing, with the contributory pension scheme.
Assistance with removal expenses. If required.—Apply.
in writing, with the contributory pension scheme.
Mansger, PETRIO GOOGLAS, LTD., 27/39
wer Road. Peterborough, Northants.

THOMAS FLETCHER AND CO., LTD.

SENIOR CIVIL ENGINEER/AGENT REQUIRED to control a number of medium-sized contracts in East Midlands. Experience in high-class R.C. work essential. Excellent prospects for man with drive and initiative. First-class salary, with participation in company bonus and superamountion schemes.—Applications, in strictest condence, stating age, experience and present salary, addressed to.

The Managing Director.
THOMAS FLETCHER AND CO., LTD.,
Forest Road, Managinid.

DESIGNER/DRAUGHTSMAN REQUIRED by manufacturers of contractors' plant South of London. Good position in expanding medium-sized company offered to young man familiar with site construction methods, who is keen to apply this knowledge to development of all types of non-mechanical plant for contractors. Knowledge of welded fabrication an advantage but not essential.—Write Box V.4871, "The Contract Journal."

STIMATOR REQUIRED for leading firm of flooring contractors in London. Good prospects. Salary acroning to age and experience.—Reply, with full details, to Box V.4848, "The Contract Journal." Setalis. to Box V.4848. "The Contract journal."

XPERIENCED CIVIL ENGINEER REQUIRED in civil
Engineering contractors' London office. Duties
include tendering, planning, and assisting in the
control of contracts. Most of the work will be concerned with major civil engineering works abroad,
and some travel may well be involved.—Write Box
V.4409. "The Contract journal."

PAULING AND COMPANY LTD.

are revising their register of CIVIL ENGINEERING STAFF desirous of taking up overseas appointments. They would welcome hearing from Engineering and Office Staff, also General Foremen, Section Foremen all Categories, Foremen-Fitters and Fitters. Those interested should send brief summary of training and experience, together with personal details, such as age, marital status, etc.—Write to:

PAULING AND COMPANY. LTD., 26 Victoria Street, London, S.W.1.

A GENT/ENGINEER REQUIRED, to supervise sewers and sewerage disposal works contract in Midlands area. Apply in writing, giving full details of experience. Appointment for interview will be made...—Write Box V.4880, "The Contract Journal."

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Profineer Recuired to assist Birmingham contractor for in setting-out and site measuring. Transport provided, and progressive position offered to suitable applicant. — Write Box V.4889, "The Contract lournal."

JAMES MILLER AND PARTNERS, LTD.

REQUIRE a GENERAL FOREMAN for civil engineering contracts. Unusually good opportunities are offered to a man with drive and ability capable of taking reasonability for major works. Remuneration includes bonus and a pension scheme.—If you are considering changing, write, with full details, to:

JAMES MILLER AND PARTNERS. LTD., Pump Lane, Hayes, Middlesex,

QUANTITY SURVEYORS and MEASUREMENT FIGINEERS REQUIRED by national firm of civil maintenance and wales. Basic salary £1.400-£1.500 p.a. depending on experience: superannuation and bonus sibemes, in operation: subsistence allowance of £240 p.a. will be paid where applicable. Applications should like full details of previous experience, and will be trated in strict confidence. — Write Box V.4942.

APPOINTMENTS VACANT

CLASSIFIED ADVERTISEMENT RATES:

Classification		Four Lines or Less	Additional Line
APPOINTMENTS	VACANT	12/-	2/6
APPOINTMENTS	WANTED	7/6	1/6
WORK REQUIRE NESS OPPORT BUSINESSES FO DIVING, FINAN- FESSIONAL SAGENCIES, H TURAL, PROPER BY AUCTION, AND MISCEL	TUNITIES, R SALE, CE, PRO- ERVICES, ORTICUL- TY, SALE PLANT		3/-
802	K NO. 1/-	EXTRA.	

ANDSCAPE SURVEYOR/SUPERVISOR.—Surveyor/
Supervisor with successful experience of competitive tendering and supervision of landscape work,
including soiling, turfing, seeding and planting for
public authorities in London and Home Counties
districts. Please give brief record of past experience,
age, and salary required. — Write Box V.4910,
"The Contract Journal."

SENIOR and JUNIOR ENGINEERS

REQUIRED for major civil engineering and building contracts in north west area.—Please send full details of age, experience and position applied for, quoting Ref. SIE M, to:

Personnel Officer.
M. J. GLEESON (CONTRACTORS), LTD.,
Haredon House, London Road, North Cheam, Surrey.

£1,500 P.A. PLUS! Can be yours if you are energetic, ambitious, experienced in the sales or service of industrial and ailied equipment, and interested in becoming an INDUSTRIAL REPRESENTATIVE for a progressive tractor, agricultural and superince of the applicant with experience one etc. B., Fordson and County range of equipment. Car provided. Substantial commission in addition to basic salary and expenses. Non-contributory pension scheme, etc. Assistance with removal expenses, if required.—Apply, in own handwriting, with full details, in confidence, to Personnel Manager. PETERBOROUGH MOTORS, LTD., 27/39 New Road, Peterborough, Northants.

SITE ENGINEER, experienced in quality control of high-grade concrete, for major bridgework in North West. Age 25-30.—Full particulars to Chief Civil Engineer, CLEVELAND BRIDGE & ENGINEER-ING CO., LTD., Darlington.

SENIOR ESTIMATOR

REQUIRED for civil engineering division, with experience of tendering for major works, motorways, dams and heavy foundations. The vacancy occurs in the north west, and the person appointed will be based in Manchester. Permanent position, good salary and pension scheme.—Please write, giving details of age and career to date, quoting Ref. 3E/M, to:

Personnel Officer.
M. J. GLEESON (CONTRACTORS), LTD.,
Haredon House, London Haad, North Cheam, Surrey.

A GENT/ENGINEER REQUIRED for sewers and sewers and sewers to see the sewers and sewers to sever the sewers and sewers to sewer the sewers and sewers to sewers and sewers to sewers the sewers to sewers and sewers to sewers the sewers the

Shemeld. 2.

THE RUSH AND TOMPKINS-PAULING GROUP OF COMPANIES REQUIRE an additional ENGINER to assist in the provision of technical services to contracts. The successful candidate will be based at our sidcup office, but may be called on to visit sites in the U.K. Dutles will include concrete control and mix design, plant layout drawings, planning and progressing of contracts, and investigation of construction meetic and the successful candidate of the successful candidate with successful candi

Station Road, Sidcup, Kent.

VACANCIES for experienced REINFORCED CONCRETE AGENTS. ENGINEERS, FOREMEN,
CHARGEHANDS and STATE CONTROL OF THE PROPERTY OF THE

SITE ENGINEERS

Applications invited from suitable men, preferably with engineering qualifications, for posts in 5. Wallar and Momounthshire. Good prospects, salary and opportunity for advancement to keen men.—Write, in condence, with full particulars, quoting Ref. 5W/2, to:

Personnel Officer,
M. J. GLEESON (CONTRACTORS), LTD.,
Haredon House, London Road, North Cheam, Surrey.

SURVEYOR REQUIRED for building and civil engineering contractor operating mainly in Southern England, with head office near Guildford Successful applicant will be head office based, visiting various contracts. Duties will include preparative accounts, details, and assisting with materials. Summaring cost details, and assisting with materials. The contract requirements for contract materials. The contract requirements of the contract of the contract requirements of the contract requirements. The contract requirements of the contract requirements of the contract requirements of the contract requirements. The contract requirements of the contract requirements of the contract requirements of the contract requirements. The contract requirements of the contract requirements of the contract requirements of the contract requirements. The contract requirements of the contract requirements of the contract requirements of the contract requirements.

APPOINTMENTS VACANT

JUNIOR SITE ENGINEER to commence on sewerage contract in Newmarket area. Permanent and progressive sites of the contract of th

Contractors, Munstanton, Norfolk.

TECHNICAL REPRESENTATIVE REQUIRED by the BRITISH ROAD TAR ASSOCIATION for Northern Ireland and Eire. Permanent position, for which residence in Northern reland or Eire will be necessary. Duties will be to advise suppliers, road engineers and contractors on the use of Road Tar for road purposes. Considerable travelling involved, for which car will be provided. All expenses paid while on duty. Pension of \$1.250 and the second contractors are provided and personal qualifications and practical experienced and personal qualifications. The provided personal qualifications and practical experienced and personal qualifications and practical experienced and personal qualifications. The provided personal qualifications are provided to the provided personal qualifications and practical experienced and personal qualifications. The provided personal qualifications are provided personal qualifications and practical experienced and personal qualifications. The provided personal qualifications are provided personal qualifications and practical experienced and personal qualifications. The provided personal qualifications are provided personal qualifications and practical experienced personal qualifications. The provided personal qualifications are provided personal qualifications and personal qualifications are provided personal qualifications. The provided personal qualifications are provided personal qualifications are provided personal qualifications. The provided personal qualifications are provided personal qualifications

AGENTS and ENGINEER AGENTS

Men with engineering qualifications and sound practical experience REQUIRED for posts in South Wales and Monmouthshire. Knowledge of cofferdam work south was a sound practical to the sound of the soun

Personnel Officer.
M. J. GLEESON (CONTRACTORS), LTD.,
Haredon House, London Road, North Cheam, Surrey.

A GENT/ENGINEER REQUIRED for medium-sized but expanding company pear S.E. Coast to control group of small opportunity for keen cost-onscious man. Car provided.—Apply Contracts Manager, THE WHINGHAM ENGINEERING CO. LTD. Wingham. Carterbury.

A SSISTANT MANAGER REQUIRED for Scottish area by established firm carrying out asphalt contracts on a national basis. Applicants, between the age of 30 and 40, must have proved administrative capabilities and be able to control staff and labour. Experience in mastic and rolled asphalt and bituminous macadam essential. Pension scheme and good prospects for young men who wish to progress. Write Box V.4901. "The Contract Journal."

QUANTITY SURVEYOR (Chief) REQUIRED by leading civil engineering and building contractors, first-class, energetic man with experience in negotiating final certificates and claims for contracts valued £5m. and over at home and overseas. Permanent, pensionable appointment. Good salary and commission.—Write full details, in confidence, to General Manage. Box CJ 811, L.P.E., 60/62 St. Martin's Lanc, Lendon, W.C.2.

Lane, London, W.C.2.

THE RUSH AND TOMPKINS-PAULING GROUP OF COMPANIES REQUIRE an additional SETTING-COUNTRY OF THE COUNTRY OF

persepartative for new and second-hand plant REQUIRED for South London and Southern Counties. Good prospects for those with proven ability.—Write Box V.4950, "The Contract Journal."

CIVIL ENGINEER

REQUIRED for certificate and planning duties on large overseas civil engineering project. Applicants must have wide experience of large-scale projects with contractors.—Write full particulars of career to:

BOX V.4682, "THE CONTRACT JOURNAL."

JUNIOR CIVIL ENGINEER REQUIRED by firm specialising in bridges. Excellent opportunity. Must be prepared to travel. Graduate with some experience preferred. — Write Box V.4931, "The Contract Journal."

Contract Journal."

OST AND BONUSING SURVEYOR REQUIRED in head office of flooring contractors, S.E. London.

Good salary plus non-contributory pension scheme. Write, stating age, experience, and salary required, to Box V.4932. "The Contract Journal."

MICHIGAN.—A vacancy exists in a rapidly expanding Michigan sales organisation for a
REPRESENTATIVE in South Wales. Applicants should
be resident in South Wales, be experienced in the
sale of capital equipment, and have good connections
in all industries. Good salary, superannuation and
Officer. MICHIGAN (GREAT BRITAIN), LTD.,
Yorkton Works, P.O. Box No. 3, Camberley, Surrey,
CHERNESY, Well-

GURNSEY.—Well-known contractors REQUIRE an setting-out work for new development in Guernsey. Applicants should be accurate with instruments, and road and sewer experience with contractors. This is a good opportunity for an energetic young man with commercial sense.—Write see, experience man with required, to Box P.4935. "The Contract Journal."

PILING FOREMAN REQUIRED: Cheshire Motorway.
SIR LINDSAY PARKINSON AND CO., LTD.,
Dunnocksfold Road, Aisager, Cheshire.

EXPERIENCED CIVIL ENGINEERING GENERAL FOREMAN

REQUIRED for large contract overseas. — Write

BOX V.4771, "THE CONTRACT JOURNAL."

POREMEN REQUIRED for sewers and sewage disposal works in Sleaford, Lincs., area. Must be keen, cost-conscious and able to work on own initiative. — Apply LILEWORTH CONTRACTORS, LTD., Knowle House, Norfolk Park Road, Sheffield,

CENERAL FOREMAN WANTED for reinforced concrete reservoirs in Oswestry area. Must have full coperience in this kind of work. State age, years of experience, and salary required. First-class opportunity for the right man. — Apply in writing to BEECHWOOD CONSTRUCTION CO., LTD., Rhosmaen, Llandello, Carmarthenshire.

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SUPPLEMENT

SURFACING department of well-known firm of public works contractors REQUIRE ESTIMATOR for their London office. Experienced in pricing the laying by machine and hand, of tarred macadam and asphalt surfacing. The position is permanent, and applicants should state their age, experience, and salary required. All replies will be treated in strict confidence. Write Box V.4943, "The Contract Journal."

AN excellent opportunity exists for two ambitious but good BuilLDING and CIVIL ENGINEERING TYPES as Personal Assistants to Directors. Duties will include acting generally as Contract Managers. Age approx. 30/40.—Apply JOHN FINLAN, LTD., Halebank, Widnes, Lancs.

SKILLED WORKSHOP FOREMAN, experienced all types farm equipment, for I.H.C. main dealers. House will be available.—Reply in writing, giving full particulars of experience, to K.N.S. (BALSHAM), LTD., Balsham, Cambs.

EARTHMOVING AND EXCAVATION EQUIPMENT

SALES RESEARCH AND PLANNING MANAGER he field of earthmoving and excavation equipment is planning to expand its activities and invites applications for the above positions from men with while experience of these products, and who have the ability to handle a challenging and interesting assignment. Remuneration and prospecially and the product of the

BOX C.J.797, L.P.E., 60/62 St. Martin's Lane, W.C.2.

WANTED, Competent SITE AGENT to take charge of sewage disposal scheme near Stamford. Good rate paid for suitable man.—Apply, with full detail of experience, to CECIL WILLIAMSON AND CO. LTD., Holly Lane, Chilwell, Notts. Te.: Nottingham 234763.

SITE AGENT WANTED for water main laying on reservoir contract in Oswestry area. Must have full experience in thickness of the experience in thickness of the experience in thickness of the experience of the expe

Llandello, Carmarthen.

TARNAC RECUIRE AGENTS, SUB-AGENTS and SENIOR ENGINEERS for medium and large-sized civil engineering contracts in England and Wales. Applicants should have previous contracting experience in heavy industrial work, dams, motorways, or general public works. Basic salary commensurate with experience; bonus and superannuation schemes in operation. Applications, which should give full details of previous experience, will be treated in strict confidence, and civil be additionable to the Pronontal Civil beautiful Existing. LTD., Ettingshall, Wolverhampton.

CUBITTS FITZPATRICK SHAND

Park Lane Improvement Scheme REQUIRE SENIOR ASSISTANT SURVEYOR capable of handling all surveying duties. Experience of civil engineering contracts an advantage. Attractive salary and bonus offered Apply, in writing, stating appe and experience, to:

Project Manager,
CUBITTS FITZPATRICK SHAND,
L.C.C. Park Lane Improvement,
s, East Carriage Driveway, Park Lane, W.1.

SITE ENGINEER REQUIRED on sewage disposal scheme(s), essentially as measurement engineer. Location initially in North Derbyshire, but must prepared to travel as necessary—Apply LiLEWORTH CONTRACTORS, LTD., Knowle House, Norfolk Park Road, Sheffield, 2.

Road, Sheffield, 2.

EstimAtor ReculireD for timber building and lencing contracting company. Splendid opportunity for efficient and energetic man of between 25/35 years of age. Salary negotiated. Modern three-bedroom house available for successful applicant. Written applications only, in confidence, to the Secretary, ASTOLAT CO, LTD., Pesamarsh, Guildford,

EXPERIENCED WORKS MANAGER REQUIRED for steel reinforcement specialists at Barking. Excellent and lucrative position for responsible individual. Telephone Mrs. Pitman: RIPpleway 5751.

REPRESENTATIVE REQUIRED for Midlands. Know-ledge of public works equipment is essential, write (own hand), stating age, education, experience, and salary required, to Ref. G.B.P., GEORGE PIKE, LTD., Alma Street, Birmingham,

LTD., Alma Street, Birmingham, 6.

CIVIL ENGINEER REQUIRED, with previous site experience, to train for a head office appointment as an Estimator. The position is permanent, and carried as substantial salary and bonus will the arranged at the end of 12 months' service.—Applicants should write, end of 12 months' service.—Applicants should write, stating age, qualifications, experience to date, etc., to Chief Estimator. THE MITCHELL CONSTRUCTION CO., LTD., Wharf Works, Peterborough, where applications will be treated in the strictest confidence.

ENGINEERS

Preferably qualified, are invited to apply for the position of SENIOR AGENT on a heavy civil engineering contract abroad. Considerable experience with contractors and wide administrative experience are essential. Please give full details of career.

WRITE BOX V.4770, "THE CONTRACT JOURNAL."

DLANT HIRE MANAGER for Birmingham company REQUIRED. Applicants, preferably between 35 and 50, to assume responsibility for sales, works, administration. Salary in region of £1,500, according to ability and experience. Write Box V.4941, "The Contract Journal."

"The Contract Journal."

Surveyor or Engineer to negotiate placing and subsequent progressing of sub-contract work. This is an important position, commanding a substantial salary. Applicants must have a sound know-stantial salary. Applicants must have a sound know-and building contracts, with special aptitude to deal with this part of the company's business. Replies, stating age, education, qualifications, experience, and salary required, to the Secretary, ROBERT M. DOUGLAS (CONTRACTORS), LTD., 395 George Road, Birmingham, 23.

APPOINTMENTS VACANT

FITZPATRICK AND SON (CONTRACTORS). LTD., civil engineering contractors, have the following contractors:

(a) SI (Contractors) (C

CIVIL ENGINEERING SURVEYORS, Senior and Junior, for surveys in various parts of the country. Apply: SITE SURVEY CO., London, S.E.3.

Apply: SITE SURVEY CO., London, S.E.S.

EXPERIENCED REPRESENTATIVE REQUIRED by sole agents for the Northfield Dump Truck. Preference will be given to applicants with experience in earthmoving or quarrying equipment. Must be prepared to travel anywhere in Britain. Good salary and prospects; pension scheme after probationary period.—Apply, giving age, experience, and allian equipment of the properties of the solone of the properties of the solone o

APPOINTMENTS WANTED

CIVIL ENGINEER (Senior Agent), with unequalled experience pipeline and pipework contracts of all sizes and types, including appurtenant R.C. structures, headings, river crossings, etc. SEEKS POSITION offering first-rate prospects. Competent adviser on estimates and claims. Very cost-conscious. Present estimates and claims. Very cost-conscious. Free salary £1,850 p.a. Write Box W.4918, "The Contract Journal."

A GENT, qualified Engineer, 41, DESIRES CHANGE to progressive firm in South of England. Experience from estimating to final accounts, sewerage, roadworks, water schemes, reinforced concrete, etc. Write Box W.4889, "The Contract Journals"

Write Box W.4894, "The Contract Journal."

CONTRACTS MANAGER/AREA MANAGER (46)
SEEKS PROGRESSIVE POST. Wide experience,
including roads, severes, reinforced concrete structures, piling, sea defence works, etc. Competent
estimator and administrator,
Write Box W.4893, "The Contract Journal."

A BLE ENGINEER/EXECUTIVE SEEKS POSITION
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Advertisements received too late for Classification

COUNTY BOROUGH. OF

AGED PERSONS' DWELLINGS.

AGED PERSONS DWELLINGS.

TENDERS are invited for the ERECTION of the FOLLOWING.

(a) Flats. Eight Flatlets and Four (b) Seven Bungalows—Nothbury Road.
(b) Seven Bungalows—Rothbury Road.
(c) 24 Flats and 16 Flatlets—Cottingham Drive. To be let either isoparately or as a combined contract. Bills of Quantities from Borough Engineer. deposit Two Guineas.

Tenders to TOWN CLERK on or before MONDAY, 6th November, 1961.

BOROUGH OF CHESTERFIELD.

STREET LIGHTING—A.61.

EXETER-LEEDS TRUNK ROAD.

EXETER-LEEDS TRUNK ROAD.

TENDERS are invited for the FOLLOWING:—
(1) Supply and Delivery of 155 Tubular Steet
Columns of 25ft. mounting height and
(2) Supply and Delivery of 157 x 140-W
Sodium Group "A" Medium Angle Beam
Side Entry Lanterns and One Post-top x
140-W Group "A" Sodium Lantern.
(3) Supply and Delivery of 17 Three x 80-W
Fluorescent Lanterns, complete with Landau alternative quotation for 17 400-W ColourCorrected Mercury Lanterns, complete with
Lamps and Gear.
(4) Supply and Delivery of 158 140-W Sodium
Experimental Colours of 158 140-W Sodium
Three Wall Brackets and Removal of 146
Correcte 25ft. Columns.
Contractors may tender separately for any item of Items.

litems.
Conditions of Contract and Plan may be inspected the Borough Engineer's Office, Town Hall, Chester-

the surrough Engineer's Office, Town Hall, Chester-The Specification, Bills of Quantities and Forms of Tender will be available at the same Office during a Tender hours, upon payment of a deposit of 12 2s. returnable on receipt of a bona-fide Tender environment of the posit of 12 2s. returnable on receipt of a bona-fide Tender environment of the tender of the tender of the tender environment of the tender of the tender

RICHARD CLEGG. Town Clerk.

UPPER WITHAM INTERNAL DRAINAGE

OX-PASTURE PUMPING SCHEME.

OX-PASTURE PUMPING SCHEME.

FIXED-RATE TENDERS are invited for the FOLLOWING WORKS in connection with the ABOVE LAND DRAINAGE IMPROVEMENT SCHEME:

(a) The Demolition of an existing Brick Arch Bridge over the Wigsley Drain, and the inforced Concrete Road Bridge supported on Piles over three spans of 20ft.

(b) The Underpinning of Railway Bridge No. 100 on the line between Clifton-on-Trent and Doddington and Harby, involving the Driving of Steel Sheet Piles and the Concrete Toe Walls and Bills of Quantities can be obtained from the Engineer's Office, 39 St. Catherine's, Lincoln, on payment of £3 deposit which will be refunded on receipt of a bona-fide Tender or return of the documents before the closing date. The Drawings may be examined at the above Office by appointment during writing hours.

amined at the above once or arriving hours.

Sealed Tenders must be returned to me not later so Noon on WEDNESDAY. 8th November. 1961. plain envelopes endorsed "Wigsley Road Bridge of Railway Bridge No. 100."

The Board do not bind themselves to accept the west or any Tender which may be received.

WILLIAM EPTON.

WILLIAM EPTON, Clerk to the Board.

39 St. Catherine's.

GINRAL FOREMAN REQUIRED for contract and development work on the East Surrex coast. with stating age, and salary required, to Box 7.4938, "The Contract Journal."

BOROUGH OF BANBURY. APPROVED LIST OF CONTRACTORS.

APPROVED LIST OF CONTRACTORS.

Applications are invited from Contracting Firms for inclusion on the above list. The list is divided into three sections as follows:

(a) Building Works which includes erection of Municipal Houses, Other Building Works and Maintenance Work (Painting and Pointing).

(b) Road and Sewer Works which includes Municipal Housing Estates, Private Street Works and Reconstruction of Existing Roads.

(Clearance Property and similar discussions of applications may be made for inclusion in respect of any or all of the above sections or sub-sections, Forms of application may be obtained on written application from J. E. Newton, Esq., A.M.I.C.E., A.M.I.Mun.E., Borough Engineer and Surveyor, Municipal Buildings, Mariborough Road, Banbury. The closing date for receipt of applications will be 23rd OCTOBER, 1961.

The Council do not bind themselves to accept any contractor for inclusion in any section of the list, and the Council's decision in this respect will be haal.

FREDERICK G. BOYS. Town Clerk.

Municipal Buildings. Banbury.

CHISLEHURST AND SIDCUP URBAN

SIDCUP HILL/HIGH STREET, SIDCUP.

SIDCUP HILLIMIGH SIREET, SILEGET.

TENDERS are invited for CONSTRUCTION of 340 sq. yd. of 8in. CONCRETE, 380 sq. yd. of MOT ROLLED ASPHALT together with KERBING and PAVING WORK.

It was and conditions of contract may be inspected at land and conditions of contract may be inspected at land and conditions of contract may be inspected at land and conditions of contract may be inspected at land and conditions of contract may be inspected at land and conditions of contract may be obtained upon payment of a Two Guinea deposit, refundable upon receipt of bona-fide Tender.

Tenders to the undersigned by 23rd OCTOBER, 1961. The Council do not bind themselves to accept the lowest or any Tender.

T. W. FAGG.

W. FAGG. Clerk of the Council.

MOLD URBAN DISTRICT COUNCIL.

PROPOSED PUMPING STATION. CHESTER ROAD.

CHESTER ROAD.

TENDERS are invited from experienced public works contractors for the ABOVE CONTRACT to be carried out in MOLD, Flintshire.

The work comprises the Construction of a Small Reinforced Concrete Underground Pumping Station, together with the Provision and Laying uf approx. 137 lin. vd. of Sin. dia. Cast-iron Rising Main. 137 lin. vd. of Sin. dia. Cast-iron Rising Main. 137 lin. vd. of Sin. dia. Cast-iron Rising Main. 137 lin. vd. of Sin. dia. Cast-iron Rising Main. 137 lin. vd. of Sin. dia. Cast-iron Rising Main. 137 lin. vd. of Sin. dia. Cast-iron Rising Main. 137 lin. vd. of Sin. dia. Cast-iron Rising Main. 137 lin. vd. of Sin. dia. Cast-iron Rising Main. 137 lin. vd. of Sin. dia. Cast-iron Rising Main. 137 lin. vd. of Sin. dia. Cast-iron Rising Main. 137 lin. vd. of Sin. dia. Cast-iron Rising Main. 137 lin. vd. of Sin. dia. Cast-iron Rising Main. 137 lin. vd. of Sin. dia. Cast-iron Rising Main. 137 lin. vd. of Sin. dia. vd. of Sin. vd. o

E. HARROLD REES, Clerk of the Council.

Mold U.D.C., Town Hall, Earl Road, Mold, Fil

Moid, Fints.

A GENTS REQUIRED by well-known firm of civil engineering contractors, for contracts in Lancs-Cheshire area. Preference given to applicants experienced in main drainage work and able to carry out first-class work at competitive rates.—Write full details of age, experience, qualifications, salary required, etc., to Box V.4950, "The Contract laural"

HUNTINGDONSHIRE COUNTY COUNCIL. COUNTY SURVEYOR'S DEPARTMENT.

APPLICATIONS are invited for the APPOINTMENT of TWO ENGINEERING ASSISTANTS, Grade A.P.T. I (6.645-6315), on the Establishment at the County Surveyor's Department, have completed three years' training, and preference will be given to those who are studying for professional qualifications. (Courses are available in the vicinity for continuation of studies.) There is ample opportunity to gain further experience in the extensive programme of works under preparation.

Applications, stating age qualification, if any, training, experience, present position and salary, together with the names of two referees, should be addressed to the undersigned by not later than MONDAY, 16th October, 1961.

County Buildings, Clerk of the County Council.

COUNTY BOROUGH OF SUNDERLAND.

CONSTRUCTION OF FOOTPATHS-TOWN END FARM PHASE II.

TENDERS are invited for the ABOVE WORKS comprising approx. 32.500 sq. yd. of 21₂in. thick CONCRETE FLAGGING and approx. 5.600 lin. yd. of 6in. x 2in. CONCRETE EDGING KERS. Particulars and form of Tender may be obtained from the Borough Engineer. 27 Fawcett Street. Sonderland, on payment of £2 22. refundable on receipt of a bona-fide Tender. Cheques to be made to be considered to the control of the control

Borough Engineer's Department, 27 Fawcett Street, Sunderland. 28th September, 1961.

BRIGHTLINGSEA URBAN DISTRICT CONTRACT FOR SEA DEFENCE WORKS.

CONTRACT FOR SEA DEFENCE WORKS.

TENDERS will shortly be invited for the CONSTRUCTION of SEA DEFENCE WORKS at BRIGHTLINGSEA, comprising mainly the Reconstruction of the existing Revetted Slopes to the Frontage, which extends over a length of approx. three-quarters if a mile, together with the Construction of a limited number of Groynes. Some Flood Protection and Relief Measures are also included in the form of heightening construction of relief slottling flood walls and the process of the construction of relief slottling flood walls and the practicals will only be considered from firms of approved experience in major works of coast protection and having the necessary resources to execute the contract which they have carried out.

M. F. TANNER

H. F. TANNER, Clerk of the Council.

Town Hall,
Brightlingsea,
Essex,
2nd October, 1961.

COLNE VALLEY URBAN DISTRICT
COUNCIL.

WIDENING AT VARLEY ROAD, B.6109, SLAITHWAITE.

TENDERS are invited for the RECONSTRUCTION and IMPROVEMENT of VARLEY ROAD, Slaithwaits, to a length of approx. 220v6.
Tender documents may be obtained on payment of a deposit of One Guinea, returnable on receipt of a bona-fide Tender net subsequently withdrawn, from the Office us the Council's Engineer and Surveyor, Town Hall, Cross Street, Slaithwaite, Huddersfield, and the drawings may be inspected during normal office hours.

Tenders to be returned to the undersigned not later than First Post on SATURDAY, 21st October, 1961.

Tenders to be endorsed "Varley Road Improvement" and enclosed in a plain sessed envelope.

QUANTITY SURVEYORS REQUIRED for building and civil engineering contracts. They should be fully conversant with all site duties.—Please write, giving full details. 15 Personnel Department (Ref. N.). MESSRS. 1. MURPHY AND SONS, LTD., 43 Charteris Road, London, N.4.

PURST-CLASS AGENT REQUIRED for large re-inforced concrete superstructure contract in Kent area. A good salary is offered to the right man. Bonus, etc., can be discussed at interview.—Apply in confidence, stating age, experience, and previous employers, to Box 1031. c/o Murray and Phelan, Ltd., Columbia Mouse, Aldwych, W.C.3.

DEPRESENTATIVE, experienced in the sale of

EPRESENTATIVE, experienced in the sale of contractors' plant, to take over an existing connection in Northants. Beds. and North Herts. Good salary, profits bonus, and expenses. Assupplied. Main distributors apply NEALE, WRIGHT AND CO., LTD., Cubbington, Leamington Spa.

AND CO., LTD., Cubbington, Leamington Spa.

PLANT HIRE Department.—YOUNG MAN REQUIRED, with knowledge of contractors' plant. Details to NEAGRON (CONSTRUCTION), LTD., Abbey House, Victoria Street, London, S.W.1.

REIGATE CORPORATION.

FOR OUICK DISPOSAL—PUMPS. ELECTRIC EQUIPMENT. etc., recently dismantled from permanent positions at Pumping Station: Wallwin Centrifugal Pumps; 6-h.p., 15-h.p., 40-h.p. Electric Motors, Starters, Non-Return, Sluice, Valves: Pipes, Bands, Junctions; Junction Distribution Fuse Boxes, Main Switches, etc. Listed particulars, view, on application: BOROUGH SURVEYOR, Town Hall, Relgate, Tel, 5321-5—Ext. 18.

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ASK the equipment makers. Check with the contractors. Talk with the men on the job. All agree that punch, thrust or lift, the everreliable Petter diesel keeps plant economically in action and the work on schedule.

SPECIALIST-BUILT

These specialist-built units are designed intrinsically to drive builders' and contractors' equipment and all are performance-tested before delivery. On site, they save muscles and man-hours. Mechanically, they are compact and dependable, need only the minimum supervision even in the worst of working conditions and are simple to operate and maintain.

UNIVERSALLY ACCEPTED

In fact, universally accepted, internationally proved . . . and backed by a world-wide spares and maintenance service . . . PETTER diesels are welcomed everywhere as an ideal source of plentiful low-cost power. Whatever your power problem is, and wherever it is, Petter can handle it.



PETTER AT THE SPENCER STEEL WORKS-On this £120,000,000 development (Richard Thomas & Baldwins) more than 200 pieces of plant are Petter powered! MAIN BUILDING AND CIVIL NG CONTRACTORS: Sir Robert McAlpine (South Wales)



A NEW DEVELOPMENT

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PETTER FOR THE BUILDER-Where lighter equipment used. Petter still provides the power - on On this £24,000,000 project (74 miles of dual carriageway) mixers, dumpers and pumps on this 140-house site for the Bracknell Development Corporation. for the Bracknell Development Corporation. (CONTRACTORS: George Wimpey and Co. Limited) over 400 items of contractors' equipment were powered by



ON ROADS AND PUBLIC WORKS — Petter powered a variety of plantused over the 54-mile Maddenhead By-pass, including this vibrator roller (CONTRACTORS: to the Bucks County Council: Higys & Hill Ltd.) Also on by-passes at Rosspur, Doncaster and St. Albans.

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air cooled from 11 to 108 bhp; water cooled from 3 to 48 bhp.

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No. 4,293 Vol. CLXXXIII Oct. 5, 1961

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LAWRENCE McCARTHY

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A LAMENTABLE RECORD

IT had been known for some time that 1960 was an even worse year than usual for industrial accidents. And the lamentable toll of death and injury, affecting 200,000 persons, was given a new significance when the 1960 Annual Report of the Chief Inspector of Factories was published recently. The Minister of Labour himself attended the press conference at which the report was presented. He expressed very serious concern at the position and placed the responsibility of remedying it fairly and squarely on the employers and workers.

Once again construction was singled out as the industry under the Factories Acts with the worst accident record. Rather surprisingly the total incidence of accidents on construction appears to be slightly less than the average. But the number of fatalities is dreadfully high. Construction, with 277 fatal accidents, accounted for 41 per cent. of the fatalities in 1960. And whereas one in 76 construction accidents was fatal, the ratio at docks was one in 188 and in factories only one in 456.

This relatively high risk of death (and doubtless also serious injury) in construction is due almost entirely to the presence of three hazards peculiar to the industry; falls of persons from heights; falls of materials from heights; and collapse of excavations. These hazards claimed over 70 per cent. of the fatalities in 1960. It can be forecast with reasonable certainty that they will do so again in 1961. For apart from minor variations caused by new techniques or new machines the causes of accidents follow a consistent pattern with the same accidents occurring again and again in roughly the same proportions year after year.

It is here that every safety campaign must start. With the facts. And there is no lack of facts about the causes of accidents in construction. They are now available in even greater detail than before, following the introduction of an improved accident report form by the Factory Inspectorate.

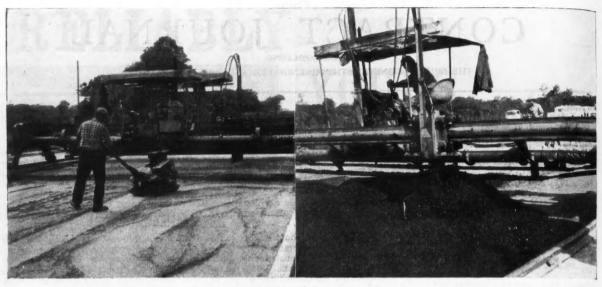
Nor is there any lack of information as to how to deal with the accident problem. Posters, leaflets and booklets have been published by the Factory Inspectorate and by the Royal Society for the Prevention of Accidents. The industry itself has set up accidents prevention groups at which problems and ideas are exchanged. And a great deal has been done by the two main employers' organisations. Both have set up safety training courses for supervisors. Recently they jointly promoted a standard system of crane signals. The N.F.B.T.E., has issued a guide to its member firms on how to organise for safety. The F.C.E.C., according to its last annual report, is shortly to publish an extremely comprehensive supervisor's safety booklet. It has published a selected list of safety films and has for sometime collected information from its members from which accidents frequency rates are calculated, both as a national average and individually against code numbers.

And yet the dreadful toll of accidents goes on. The frequency rates, just referred to, show that on civil engineering works the chances of death during a man's working life are one in 50 and that every man is likely to receive at least two reportable accidents during his working life. And in 1960 the total number of deaths and injuries in building and civil engineering was the highest ever.

Is one therefore to assume that all the efforts to promote safety have been of no avail? The answer must surely be no. Indeed some of the rise in the figures for accidents is doubtless due to the fact that the safety campaigns have made more firms aware of their duty to report accidents. It is equally true that without the safety campaigns the number of accidents would have been higher still. Certain campaigns have been more successful than others. Throughout industry, for example, a significant reduction in the number of accidents caused by manual lifting and carrying has been achieved and fewer excavators and crane jibs now come into contact with overhead lines. Certain individual firms have been extremely successful in reducing accidents all along the line. They have proved that it can be done and they have also proved that safety pays in terms of lower insurance premiums, better morale and greater efficiency.

Indeed the solution to the accident problem, like the problem itself, is a human one. The Minister of Labour was quite right in contending that a further increase in the number of factory inspectors is not the answer. Day to day, hour to hour, even minute to minute supervision is required. That would require an army of inspectors. It can only be economically achieved by the supervisors on site.

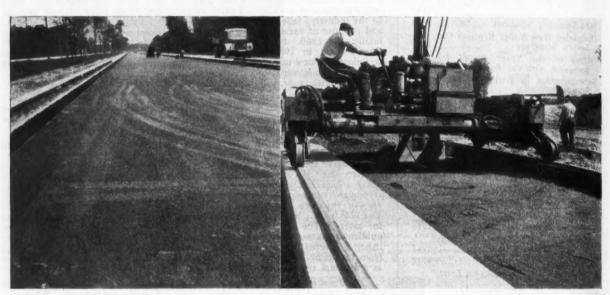
But the start must come from the top. Management must make safety a matter of company policy and must see to it that their instructions are carried out on site by their supervisors. The unions too must play their part in making their members aware of their own responsibilities and of the careless or inadvertent ways in which they can cause an accident to themselves or to a fellow workman.



BASLE-KARLSRUHE MOTORWAY

Compacting sub-grade of frost-resistant gravel sand

Laying bituminous base



Bituminous base

Laying blanket course for hard shoulders



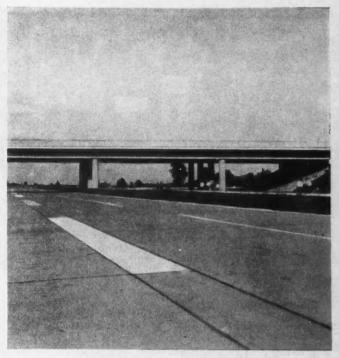
Automatic premixing of aggregates at contractors' processing plant

Mobile concrete mixing plant

GERMAN MOTORWAY CONSTRUCTION AND REPAIRS

British Engineers' Visit

By Our Own Representative



Completed section of motorway, showing one of the prestressed concrete bridges

DURING their recent visit to Germany, the Pavings Development Group (Concrete and Soil-Cement) inspected concrete road and bridge projects in the Freiburg, Mannheim, Ludwigshafen, Düsseldorf and Duisburg areas and discussed design, construction and traffic problems with state and municipal officials.

municipal officials.

The visit was part of a nine-day tour of inspection covering Switzerland, Germany and Holland undertaken by some 50 British engineers and contractors. The party also included representatives from Government departments in England, Scotland and Northern Ireland.

Motorway Programme

Traffic density per mile in Western Germany is considerably higher than in the United States and is only exceeded by Belgium. It is not surprising therefore that road work has played a prominent

role in the country's post-war construction. Nearly all the money obtained from motor fuel taxes is earmarked for road construc-

fuel taxes is earmarked for road construction.

During the past five years some 240 miles of new motorways have been completed and 300 miles are now under construction. By the end of this year it is anticipated that all this work will have been completed; it is planned to complete about 100 miles of motorway each year.

Motorways are receiving top priority because it is considered that this type of road serves best the country's extensive long distance traffic and is needed as a part of the European highway network. But acquisition of right-of-way is proving costly and time consuming and there is also a shortage of government and municipal engineers. Consulting engineers are being brought increasingly into the picture as also are the design staffs of the contractors, especially for the large bridge projects. For these jobs contractors

submit both design and estimates and are often paid a design fee.

The practice of building motorways with only two traffic lanes in either direction is being increasingly criticised and it is interesting to note that the construction of the London - Birmingham Motorway with three lanes in either direction has given rise to discussions as to whether a third lane should be added to existing motorways which are now working to capacity. At the present time a third lane in either direction is being added to the Cologne-Leverkusen section of the Cologne-Düsseldorf Motorway. Many highway engineers in Germany think it will be a great mistake to build any more two-lane motorways.

Basie-Karlsruhe Motorway

Basle-Karlsruhe Motorway

Construction of the southern end of the Basle-Karlsruhe Motorway in the Freiburg area was the first project to be visited. Before proceeding to the site the party



Conveying concrete to train



Concrete train operating under cover

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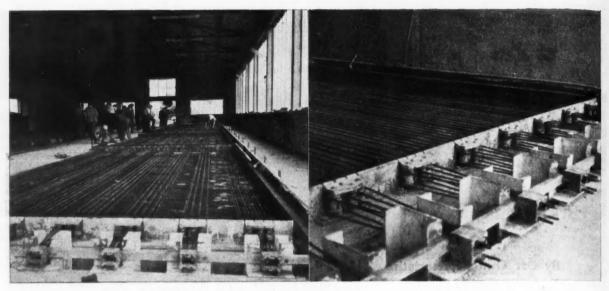
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Prestressing beds

inspected the nearby processing plant of the contractors for the pavement con-struction, Sager Woerner of Stuttgart and Strabag of Freiburg. Here, three plants were handling aggregates, cement and ready-mixed concrete. Materials were mixed on site for the pavements, ready-mixed concrete being used for the hard shoulders. shoulders.

shoulders. This contract, covering five miles of road, was obtained by the contractors in open tender and they have also received the contract for the next five miles. On average they are constructing 1,000ft. of concrete road per 10-hour day. The British visitors were much impressed with the care taken in curing the concrete, liberal use being made of straw matting and water.

water.

The overall width of the motorway is 30m. The width each side of the centre line comprises 2.00m. grass central reservation; 0.75m. marginal strip; 7.50m. carriageway; 0.75m. marginal strip; 2.50m. hard shoulder and 1.50m. grass verge.

The carriageway pavement consists of a 22cm. thick concrete slab laid on a bituminous base 8cm. thick, of two course construction—5cm. of 0.40mm. material and 3cm. of 0.15mm, material. The subgrade consists of frost-resistant gravel sand and is at a depth of 30cm. below the carriageway surface throughout. The slab is reinforced by 3.1kg/m.² fabric mesh reinforcement.

The concrete contains 350kg, of cement

per cu. metre. The aggregates are natural sand in 0-3mm. and 3mm.-7mm, sizes and granite chippings in 8mm.-12mm., 12mm., 18mm. and 18mm.-35mm, sizes. An airentraining agent or waterproofing agent is added to the mix.

Joint spacing is 15m., every third joint being constructed as an expansion joint; the intermediate joints are dummy joints. The marginal strips are 27cm. thick and are laid on a 3cm. thick blanket course. The hard shoulders consist of 20cm, thick unreinforced concrete, laid on a blanket course, which is given a dark surface colour.

Two earthworks contracts were visited. At the first the ground water level was being lowered, excavation being carried out by face-shovels. At the second contract excavation was being undertaken with gravel washing plant to obtain frost-resistant sub-grade material.

Repair of Old Carriageways

Repair of Old Carriageways

While new motorways are being constructed Germany is also faced with a big job of replacing and improving the motorways, or autobahns as they are called, which were built before the war. Eventually all this pavement must be replaced. Road rebuilding is frequently encountered as one drives about the country. Timed traffic signals give a warning that one roadway is closed and that two-way traffic is operating on the other roadway. On the side under repair all the old pavement is

Pretensioning of wires

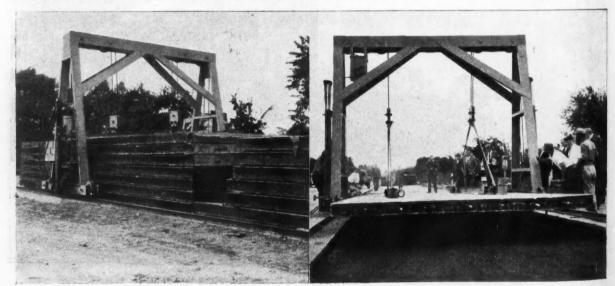
broken up and removed, the sub-grade then being dug out to a depth of one metre and a new stabilised subgrade built up and compacted. The new pavement is then constructed in situ.

The very high traffic densities on many sections of the motorways have however led to difficulties in repairing these pavements. Closing both lanes of one carriageway sometimes brings traffic from both directions to a standstill at more than two miles from the site of the repairs and during the holiday period of July and August when traffic is at its heaviest often no repairs at all can be carried out.

To minimise the interference which repair work causes to traffic, a rapid method of slab replacement was developed in 1957 by the Stuttgart Motorway Authority in conjunction with the contractors, Tiefbauunternehmung Otto Weidle. The method consists of breaking out damaged slabs and replacing them with precast prestressed paving units which are 7in, thick and usually 33ft, long and 12ft. wide. It has the advantage that usually only one traffic lane need be closed and this lane can be reopened to traffic quickly because installation of the precast units is rapid and no curing period for the concrete is required.

Although the cost of the repair work itself in the contractors the traffic and the repair work itself in the contractor of the precast units is rapid and no curing period for the concrete is required.

Concluded on page 1688)



Precast prestressed concrete units in curing yard

Lowering unit on to regulating course

FUTURE OF PUBLIC LIGHTING

Engineers Looking Forward to New Code of Practice

IN his presidential address given on Tuesday at the conference of the Association of Public Lighting Engineers, MR. E. C. LENNOX, M.I.E.E., F.I.E.S., said the public lighting future might see many changes—better light sources—better forms of administration. The Association looked forward the interest of the president of the pre to the issue of a new Code of Practice clearly indicating present-day needs, a code which would cover advice on a

broader field, including problems special of ligh lighting c i t y ntres, bridges, centres, bridges, tunnels, roundabouts and special motor roads, all of which would be the concern of the street lighting engineer.

Mr. Lennox, who is manager of the Wear Sub-Area of the North Eastern Electricity Board, Sunder-land, had been

elected president for the second time after 25 years. the course of his address he said:—

E. C. LENNOX

The year of my first presidency was the beginning of a memorable period in public lighting in this country. The Ministry of Transport Departmental Committee on Street Lighting (formed in 1934) in that year issued its interim report—a report which in my opinion, more than had one year issued its interim report—a report which, in my opinion, more than had any publication to that date, helped to create in the minds of the public an appreciation of the need of better street lighting to ensure the easy and safe movement of traffic at night with due regard to the needs of pedestrians and prevention of crime.

Great were our hopes in those days that street lighting would be rapidly developed as a national public need with consequent reduction of crime at night, road accident rates at night, and improvement of facilities for the comfort of the pedestrian in his use of the street during hours of darkness.

Can we be satisfied with progress since that date? The Ministry of Transport Report was well received and dealt with the principles of good practice as to installation and maintenance of street light installations. It was of material value to lation and maintenance of street light installations. It was of material value to practising public lighting engineers as well as to the many officials of the varied types of lighting authorities whose officials included among their other interests the lighting of their authority's highways and streets but often this without mature. streets but often this wit experience in this direction. without mature

The intervention of a prolonged war and its aftermath of financial restrictions for nearly 10 years stayed the provision of new installations based on the dictates of the

1950 produced a Code of The year 1950 produced a Code of Practice CP.1004 for the lighting of "main roadways," which largely interpreted the recommendations of the departmental committee, followed in 1952 by a Code for "other roadways."

Street lighting engineers have therefore had the benefit of only some 10 active years in which to develop street lighting on the lines set out in the 1937 report.

These 10 years have produced increasing traffic density such that has made it clear that yet higher standards of lighting than those indicated in the 1950 Code are now necessary in certain classes of now necessary in certain classes of

Already many through roads in heavy traffic areas are being lit with more power-ful sources and at higher mounting heights

than are recommended in the 1950 Code.

Such changes in practice are also enforced as a result of the increasing use of new "non-skid" road surfaces, the reflection properties of which do not promote T-shaped high brightness patches from each light source, even with fittings of the high-angle type distribution recognised in CP.1004 (1950).

Moreover, the geometry of many modern roads—width, etc.—make necessary some change in road lighting practice.

It is encouraging to know that the 1950 Code is now under revision and members will look forward to the new recommenda-

Lighting Sources

Since 1936/37 and assisted largely by the considerable spurt to research work which was carried out during the war years, there have been tremendous developments in the types and efficiency of electric lighting sources made available for the use of public lighting.

Lighting by gas during this period has shown very little advance in efficiency as determined by lumen output per therm of gas consumed.

Tungsten Lamps

Despite the widespread use of the much more efficient discharge lamps, the tungsten filament lamp is still the most important light source in general use in the home, the shop and the office. It is cheap, simple to use, requiring no special control auxiliary apparatus and has excellent colour rendering.

For street lighting it is still mainly used in residential areas where lower mount-ing height (15ft.) demands the use of lower

Electric Discharge Lamp

It is in this range that the tremendous increases in efficiency have taken place. H.P. M.V. lamps have been in regular use on roads since 1933. Sodium lamps did not appear in the principal manufacturers' catalogues for some years later. Fluorescent tubes and lamps appeared still later. Today efficiency in light output has reached 40/50 lumens per watt for mercury; and 75/100 lumens per watt for sodium.

This light output efficiency, coupled with longer life of the lamps (4/5,000 hours), has greatly encouraged their use on traffic routes. Of the two types, sodium in recent years appears to be the most in recent years appears to be the most popular, the ratio of use of the various media for traffic route lighting being, in round figures: — "Gas 10 per cent."; "Tungsten 28 per cent."; "Mercury Vapour 17 per cent."; "Sodium 38 per cent."; "Fluorescent seven per cent.";

Generally used in lanterns with medium angle beam distribution sodium, with its characteristic yellow colour, lower intrinsic brightness and providing good contrast is the popular choice for ring roads and outer traffic routes.

With efficiency increase from 55 lumens per watt in 1936 to 100 lumens per watt today, such preference of use is not today, suc surprising.

The mercury vapour lamp -- although The mercury vapour lamp—although second in apparent popularity—still has a very large support for lighting of traffic routes. More often fitted in lanterns of high angle beam distribution, higher background brightness is obtainable giving generally a more cheery atmosphere for the padestrian. the pedestrian.

Both media leave much to be desired in correct colour rendering and I look forward to a realisation by lighting authorities of the need to provide better colour in lighting of those streets which are

predominantly in residential areas, or centres of communal activities.

centres of communal activities.

Important as indeed is the problem of safety, surely some additional thought could be given to the aesthetic value of good colour rendering. The pedestrian has usually completed a heavy day at his work and is entitled to consideration in walking out with a companion whose features and dress should be seen in reasonable or even complimentary colour rendering and not appear to be dressed in drab material and having yellow or colourless features, which make one appear even more tired than one feels. even more tired than one feels.

even more tired than one feels.

Thus do pedestrians suffer in the name of efficiency! The harmonius social use of streets at night is lost for one or two decades for a very small cost difference. Why do not they complain? One reads continually of the need to improve the aesthetic design of so-called street furniture and it is agreed that columns, lanterns and brackets should be of good design and harmonise with the daylight view. The work of the Royal Fine Art Commission and the Council of Industrial Design have been much appreciated to this end. Valuable as this is, surely the moral Design have been much appreciated to this end. Valuable as this is, surely the moral uplift of appreciative colour distinction at night is at least of equal aesthetic value. I have, however, yet to hear of these bodies, so keen on aesthetic values of daylight appearances, raising their voices against the destruction of colour values during dark hours in areas used predominantly by pedestrians.

Suitable light coverge are now readily

Suitable light sources are now readily available and at costs little more than the cheaper sodium or mercury. The introduction of fluorescent powder in mercury vapour lamps has produced the M.B.F./U. lamp with great possibilities for use in main roads in central residential areas,

main roads in central residential areas, shopping centres, city squares and the like. For the future, still further improvement in efficiency may be expected in all types of electric light sources. For example, we may yet see the "Tungsten lodine" lamp—now past the experimental stage—used for sections of our work. These quartz tubular iodine lamps are high power lamps of relatively small size and can be used for projectors or floodlights. Why be used for projectors or floodlights. Why

be used for projectors or floodlights. Why not for lighting of civic centres?

The Tungsten Iodine lamp can also be used as ballast lamp with mercury vapour electric discharge lamps—a small quartz envelope filament lamp—mounted adjacent to the M.V. lamp within the same phosphor coated jacket, thus improving the colour rendering.

coated lacket, controlled the controlled contain 250-W M.V. plus 200-W M.F., giving 60 per cent. better efficiency than the M.F. lamp of 550-W and also give a 4000 hours life.

4,000 hours life.

We may yet see still further gains from the highly efficient sodium lamp—already 100 lumens per watt — towards its theoretical efficiency of 300 lumens per

watt.

The phenomenal improvement in efficiency of electric lighting sources has naturally determined the increased use of electricity as a source of power for street lighting purposes. Add to this efficiency benefits in control and maintenance, and competition for new street lighting schemes so much a feature of 25 years ago has ceased so far as electricity in control. has ceased so far as electricity is con-cerned, the issue remaining being one as to the type of electric lamp and lantern to be installed.

The consumption of electricity for street The consumption of electricity for street lighting has more than doubled in the last 12 years, due to several factors, i.e., additional lighting of new housing developments; improved lighting on many of our traffic routes; the increased availability of electricity in rural areas; and use of increased lighting hours, e.g., lighting all night in

lieu of half night. (The increased costs are relatively low being mainly energy at a low "follow on" rate and cost of lamps; additional labour is related only to change of lamps; no additional charges for patrol, cleaning or capital.)

Naturally, in common with all other charges, charges for electricity supplied have increased during the period, but these increases are small in comparison with practically every other commodity.

Taking into account the greatly increased efficiency of the lighting sources, one can be confident that light is being purchased today at a cheaper price than post-war or even pre-war period.

It is natural that this increase in efficiency of electric light sources, due in the main to the introduction of the discharge tube, has been a factor which has resulted in the steady displacement of gas by electricity for street lighting.

Lanterns

The considerable development in the design and construction of lanterns has contributed greatly to the efficiency of public lighting. The directional reflector and refractor fittings in use up to 1936 were products of the B.S.I. 1927/31 specifications which were often wrongly interpreted so that emphasis was given to midspan illumination values. span illumination values.

span illumination values.

The 1937 Report (Final Report of the Departmental Committee of the Ministry of Transport 1937) overcame the deficiencies of these specifications, emphasising the need to create background brightness to the eye of the observer and the 1950 Code, based on these technical recommendations, considered three main types of distribution: of distribution:

(1) High Angle Beam which on account (1) High Angle Beam which on account of the high reflection factor of road surfaces available at high angles of incidence produces high road brightness so that objects are made visible in silhouette against the bright road surface.

The high road brightness thus achieved increases the brightness of the visual field and thus reduces the glare from the lantern which the wire results he were appearable.

which otherwise would be unacceptable for such distribution.

(2) Medium Angle Beam-less glaring but demanding closer spacing since the brightness patches on similar road surfaces are not so long compared with High Angle Beam distribution.

(3) Cut Off Distributions - requiring minimum spacing.

The present need is to provide a wide

The present need is to provide a wide azimuth light distribution to create brightness of buildings with a compromise between high angle lighting—necessary to give high roadway brightness but with possible attendant glare—and the continental cut-off lighting with no glare.

Materials used in lanterns have shown materials used in lantering have shown considerable changes. Reflectors of enamelled steel and silvered glass are mainly replaced by anodised aluminium. The manufacturers promise us further im-The manufacturers promise us further improvements in the use of aluminium-magnesium alloys—harder and stronger than aluminium and not so subject to deterioration due to impurities prevalent with aluminium. New processes for chemical polishing will produce more efficient reflectors in both shape and durability without increased costs.

Plastic materials have been used with continual improvement in stability and in form of manufacture. Plastic materials that are formed in long continuous extrusions in the form of flat strips, or troughs or tubes with a prismatic pattern on one surface are means of producing ranges of fittings providing reasonable control of light output at minimum cost.

Nevertheless, glass remains the staple material for use in smaller refractor fittings

with high wattage lamps when heat is a factor and discolouration is to be avoided. The introduction of various shapes and sizes of light sources has tested the in-genuity of the lantern manufacturer. The use of the 5ft, fluorescent tubes

provide the manufacturer with a problem which has not been entirely successfully

overcome. Problems of light control, wind resistance, weather, and finally to avoid going to excessive sizes having regard to going to excessive sizes having regard to daylight appearance. These long light sources which now include the linear sodium will continue to present problems of satisfying the aesthetic as well as the utilisation/efficiency angle.

Nevertheless, the advent of fluorescent tubes and mercury vapour colour corrected lamps was a revolution in the field of street lighting and their use appeals to me as being a desirable proposition for this

a desirable proposition for this country.

Too long have the undoubted benefits of colour corrected lighting produced by these light sources been reduced or lost by the glare of high-angle beam lantern distribution. Their use admittedly may require a lower spacing/height ratio, say 3.1, but the resultant lighting will give, with a minimum of glare, maximum visibility and lighting with colour appraisal

with a minimum of glare, maximum visibility and lighting with colour appraisal. In March, 1960, the Electric Light Fittings Association—in conjunction with a technical panel appointed by the A.P.L.E.—produced a booklet "Guidance Notes for Purchasers of Street Lighting Lanterns." This booklet should be a constant guide to those about to seek tenders for new street lighting equipment.

Street lighting lanterns are expected to function satisfactorily for many years. Often as not they are in dirty corrosive atmospheres. They must be easy to clean, to re-lamp and maintain the light distribution for which they were originally designed.

designed.

If these are the qualities the lighting

If these are the qualities the lighting authority desires to buy they should know what materials they are buying and these notes will be of great value to them. Experience often shows that the cheapest initial cost may not be the cheapest in total cost over the life of the lantern. It is hoped that the joint committee of the two Associations will further their work by ensuring that tenders for lanterns are accompanied by data giving light output or polar curves showing total flux above and below horizontal, measurement of degree of cut-off, etc. Not all manufacturers supply such information today.

Planning of lighting installations has called for personal skilled survey on site to determine placing of lamp standards, having regard to mounting height—type of light distribution—road width—background, and linear light output intensity. To evaluate the quality of the lighting installation, one must decide:

(a) Is everything on this road, or about

to enter or leave it, made clearly visible by the lighting installation?

(b) Does the light distribution of the lantern cause glare beyond the limits of comfort?

Are contrasts between object and background sufficienty high?

Road Surfaces

The efficiency of a street lighting installation—from the observer's point of view—depends to a large extent on the way in which the road surface reflects the light which falls upon it.

Best examples of high angle distribution

schemes are found on road surfaces which have become polished but are not necessarily skid resisting especially under wet conditions.

conditions.

The main uncontrollable variation of the effect on street lighting is the weather. Rain changes the surface reflectivity—and its effect on windscreens of vehicles is to reduce visibility of the driver.

Changes in road surfaces—due to repairs—can change the surface from good to poor reflectivity.

Surface dressings should be carefully chosen if the lighting results are to be maintained. It is not easy to produce a light distribution to cater for these wide variations in road surface values.

There is real need for better understanding between road and lighting engineers on how the requirements of skid resistance and light reflection can best be combined.

Naturally aggregate of light colour pro-vides better light diffusion and at first sight it would appear that much could be done in this way to satisfy both require-ments of skid resistance and improved visibility at night.

visibility at night.

Nevertheless in view of the necessity to render roadways non-skid, it now seems unlikely that the street lighting engineers unlikely that the street lighting engineers can expect surfaces to cater for high-angle light distributions and with the reduction of polish of road surfaces such lighting fittings as exist will progressively appear more glaring.

Many lighting installations in this country are pre-war—over 20 years old.
During these 20 years not only have traffic speed and volume increased but, in many cases, road surface materials used have vastly changed and there should be chestition in replacing these 20 no hesitation in replacing these 20-year-old installations.

The greatly increased efficiency of light output from the new sources help the situation by allowing an increase in the present recommended mounting heights. Several recommended mounting heights. Several installations in recent years have adopted 30ft. or 35ft. Unfortunately because of increased light output and mounting height some have overstepped the desirable spacing—170ft. spacing has appeared in several cases—with the disappointing results of creating a "patchy" background. No doubt the new Code will set out a simplified method of determining the geometry of the problem of mounting height, spacing, width of roadway and light output.

light output.

But a warning should be given to all designing new installations pending the issue of the Code. Spacing should not generally exceed 140ft. even with a 35ft. mounting and should be less on wider roads.

Road Safety

In several Papers dating back to 1935 I have produced evidence of the high rate and severity of road accidents during dark

The problem arises as to whether good street lighting will improve the situation. Any experienced driver knows that driving at night is more hazardous than driving

by day.

He also knows that inadequate visibility is the main reason for high night-time road accident risk.

Detailed statistical investigations by Harris and Christie and Moore of the Road Research Laboratory clearly indicated that good street lighting on traffic routes, i.e., to Group A standard reduced the accident rate by 30 per cent.—reduced pedestrian accidents by 45 per cent.

There was general indication that serious accidents were reduced to a greater expert.

accidents were reduced to a greater extent, e.g., serious accidents 33 per cent.—fatal accidents 50 per cent. All this confirms that the majority of accidents at night are due to lack of good visibility and that normal motor-car lighting does not necessarily enable the motorist to see objects in time to avoid collision.

in time to avoid collision.

Good street lighting could be the means of at least making visible the information for the road user in allowing him to take

It was also shown that good street lighting attracted traffic from poorly lighted roadways and indeed was effective in pre-

roadways and indeed was effective in preventing numbers of accidents from rising with the increased traffic. For example, in certain highly congested roads a reduction of 14/20 per cent, accidents despite much increased traffic.

Such accident figures quoted are generally average figures over a fairly large area, including many traffic routes.

Improved lighting on a particular traffic route may well show figures above this quoted average, I recently came across the following figures for 1955/56 in respect of eight roads near London. of eight roads near London.

Day Night Total Fatel

Before Class A Lighting had been installed ... After Class A Lighting had been installed ... 161 365 120 418

Such figures for isolated cases cannot

October 5 1961

THE CONTRACT JOURNAL

ic

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be conclusive but they do tend to show be conclusive but they do tend to show that when the new lighting had been installed the traffic rate had increased and with it the day-time accident rate. Despite the increased traffic rate the night accident rate had greatly decreased—as had also the severity of the accidents at night. One can only presume due to the better visible guidance provided by good fixed road lighting.

Exercise applicable the introduction of

Everyone applauds the introduction of Road Traffic Bills designed to improve conditions on traffic routes and to reduce conditions on traffic routes and to reduce the appalling accidents on roadways. The latest of these Bills appears to be more concerned with the improvement of the behaviour of the driver. All will agree that bad behaviour—unnecessary speeding—drunkenness whilst driving—are con-tributing to a large number of accidents the by day and night. Nevertheless the tributing to a large number of accidents both by day and night. Nevertheless the improvement of road conditions—by elimination of dangerous bends—elimination of bad road humps—providing wider roads—and by provision of fixed lighting during darkness—all of these are works designed to give better visibility—and in giving benefit to good and bad drivers alike will produce better results in reduction of road accidents than imposition of other penalties. tion of road further penalties.

A further contribution to road accidents the habit of driving at pick

side lights on. Driving with side lights only may make sense when driving in well-lighted areas, but the risk of the driver omitting to switch on headlights when entering a poorly lit area is to create risk of accident.

Traffic conditions today demand that dipped headlights should be used even in lighted areas.

Motorways

Motorways

The M.1 was opened for traffic in November, 1959. It was natural that consideration should have been given to providing efficient lighting (a) at the intersections and (b) for a length of motorway. To date the decision has not been in favour of lighting—nevertheless there are many who hope that such a decision will ultimately be made.

There are many pointers which indicate that lighting this type of motorway would

that lighting this type of motorway would be to the public benefit.

The ratio of accidents per one million vehicle miles, although less than certain general-purpose roadways, is high.

The ratio of accidents night/total is

high (33 per cent.). When related to amount of traffic, the percentage of accidents during dark hours is nearly twice that of daylight hours. The severity of accidents during dark

hours is much greater, i.e., more fatal and serious injuries.

The problems of a driver using the motorway are different to those of the average traffic routes.

Speeds are likely to be higher.

Speeds are likely to be higher. At 30 m.p.h. a driver can stop his vehicle well within 2/300ft. At 70 m.p.h. he requires 4/500ft. under similar conditions. At 90 m.p.h. 700/1,000ft.

During dark hours the driver must rely on his own headlights—rear lights of vehicles (if illuminated)—and on the lane reflector studs. Headlights of cars can only give up to 3/400ft. marking—by reflection of the marker studs (much less if headlights are dipped).

With speeds of 70 m.p.h. event for

With speeds of 70 m.p.h., except for such lights as are on vehicles in view, the driver is unable to discern objects beyond 3/400ft.—and then only under the best

conditions.

The distance of visibility is much reduced by bad weather conditions—fog, mud/mist, spray on windscreens, etc.

Even with the use of the most efficient headlighter than the second than the s

Even with the use of the most emissions, headlights, an unlighted stationary object could not be seen by the driver of a vehicle travelling at 70 m.p.h. and the vehicle stopped by him in time to avoid collision. The colly hope of avoiding collision. The only hope of avoiding collision would be that the driver can swerve in time—with consequent danger to drivers of vehicles in other lanes. To enable drivers at 70 m.p.h. to see objects 1,000ft. ahead—allowing for clear weather conditions—would in theory require headlights with intensity 40 times that of the present normal type. Were such headlights possible they would be intolerable as glare sources to drivers of oncoming traffic and they could be of little use in fog.

There can be no doubt that the increased severity of accidents on motorways are a natural following of accidents at speed due to insufficient visibility. Fixed lighting would indicate to a driver all the information he needs—as, for instance, does good daylight. Unlighted objects and traffic lanes would be seen so far as the contour of the road ahead will allow and use of the road during presence of fog would

be made immeasurably safer.
On motorways abroad, where density of traffic is higher than our present motor-ways, the installation of fixed lighting has been followed by a reduction of the acci-dent rate during dark hours. France, for example, has recently

France, for example, has recently adopted fixed lighting for some of their motorways—with a considerable reduction in accident rate at night (Auto-route de l'Ouest out of Paris, reduction—27 per cent.).

It is my opinion (and the opinion of many who have made a study of the problem of roadway lighting) that fixed lighting on motorways would be a worthwhile expenditure in (a) saving accidents, and (b) increasing traffic use of motorway during dark hours, with (c) consequent reduction faith time traffic on alternative.

during dark hours, with (c) consequent reduction of night-time traffic on alternative "all purpose" roads.

The present danger of drivers of fast motor vehicles having mistaken confidence in their ability to see by their headlights would be reduced and they would be enabled to see objects in time to avoid collision.

Fixed lighting would cure the ghost problem of the M.1 which has already caused a serious accident and is said to

caused a serious accident and is safe to be very disconcerting to those who have had experience of the illustion.

Cost of a motorway is £250,000 per mile and cost of lighting is estimated at £4,000 per mile. Anti-glare screens cost £3,000

and cost of lighting is estimated at £4,000 per mile. Anti-glare screens cost £3,000 per mile and are not entirely satisfactory. In March, 1961, a reply was given in the House by the Minister of Transport (Mr. Marples) that he saw little practical advantage in a pilot scheme for the lighting of motorways and decided "not at present to light avail motorways and the saw little present to light avail motorways and the saw little present to light avail motorways and the saw little present to light avail motorways and the saw little present the light available to the saw little present the light available to the saw little present the light available to the saw little present the saw l to light rural motorways—whilst heavy trafficked all-purpose roadways—where hazards from pedestrians, cyclists and general traffic movement and obstructions

were greater, remained unlighted."

I can readily agree that there is little advantage in a pilot scheme—certainly very little to the lighting engineer who already has the knowledge and experience to prohas the knowledge and experience to provide an adequate scheme if favoured with the necessary order. The only advantage of a pilot scheme would be to prove to road engineers and others who would be the ultimate deciding authority that adequate lighting would save its cost in (a) cost of accidents and (b) increased use of the motorway during dark hours with the consequent savings of traffic and accidents on "all purpose" roads.

consequent savings of traffic and accidents on "all purpose" roads.

I cannot so readily appreciate the emphasis on "not lighting the motorways" the responsibility and cost would presumably fall direct on the Ministry of Transport) "whilst the all-purpose road-

ways (heavy traffic routes with many more hazards) remain unlighted."
Surely it is well known why so many all purpose traffic routes remain unlighted or poorly lighted. It is mainly a matter of "Administration."

Administration

Twenty-five years is a considerable

period in anyone's life.

In 1935 I drew attention to the need for a new form of legislation to meet the National requirement for adequate street lighting. Since then I have been joined by many advocates who have emphasised that the street lighting legislation descent. that the street lighting legislation does not

meet the problems of the day and that in meet the problems of the day and that in the interests of economy, efficiency and safety of all road users some reorganisation should not be further delayed. During a discussion on the "Lighting of Main Roads" in the House of Lords in 1958 the House was informed that "generally there are far too many lighting authorities" and that "the whole question of lighting administration was receiving consideration but that larger authorities were needed

administration was receiving consideration but that larger authorities were needed to deal with lighting and to attain greater uniformity in our lighting system."

Not only is there a multiplicity of lighting authorities but in 75 per cent, of them there is a total inadequacy of financial resources to carry out their functions satisfactorily.

factorily.

At the present time there are some 3,500 At the present time there are some 3,500 lighting authorities—including 1,700 parish councils. There could be a further 5,000/6.000 if all parish councils adopted the Lighting and Watching Act, 1833.

Briefly the various lighting authorities include city, county borough, borough, urban district, parish (rural district—where they adopt urban powers), and in Scotland county councils.

Each must meet their own costs for lighting within the parochial or urban boundary.

Of the need for adequate lighting on "all purpose" roadways there can surely be little doubt but there seems no possibility of this so long as its administration is carried out in the present way.

Recognising the need for greater operation between lighting authorities, the Minister of Transport has advocated the formation of conurbation committees in the lighting of traffic routes in conurbations of built-up areas.

of built-up areas.

In July, 1958, the Consultative Committee of the London Conurbation was formed and the Committee have published a report which must be of real value to all these lighting authorities in an attempt to show the need for uniformity in lighting, i.e., effective lighting, without insisting on uniform type of lighting medium.

uniform type of lighting medium.

Other conurbations have been formed in Lancashire, Cheshire, Merseyside, and West Riding of Yorkshire, but so far progress is slow and objective limited to uniformity of lighting of traffic routes. No suggestion is made as to levelling the cost of providing the uniform lighting.

The simple recition is that making.

The simple position is that most urban, rural and parish lighting authorities where

the rateable value is small in relation to the length of roadways (heavy traffic routes in built-up areas) to be lighted cannot possibly afford to provide reasonable

Even on trunk roadways (where condi-tions of pedestrian traffic indicate a need for lighting) it is often not possible for the small lighting authority to meet the cost of 50 per cent. of the cost of lighting (the other 50 per cent. Ministry of Transport

Why is it that some new administration system cannot be evolved which would level out the cost of lighting of traffic

FORMWORK DISCUSSION GROUP MEETING

The third meeting of the Formwork Discussion Group will be held at the Eccleston Hotel, Eccleston Square, London, S.W.I, on Tuesday, October 24, 1961, to discuss "Formwork For Concrete"—a report issued by the American Concrete Institute of the Concrete Institute.

Institute.

The panel, which will have Mr. H. B. Hunter (Leslie and Co., Ltd.) in the chair, will comprise Mr. A. H. Brown (Frederick Snow and Partners), Mr. J. R. Illingworth (George Wimpey and Co., Ltd.), and Mr. F. W. Turner (Holland & Hannen and Cubitts (Great Britain), Ltd.).

Application forms for both tickets and copies of the report are available from

copies of the report are available from Mr. W. F. Whyman, Kwikform, Ltd., East Road, Upper Wickham Lane, Welling,

John Sumner's Notebook . . .

AS already noted by this journal, the the area of London in the neighbourhood of Parliament Street, Bridge Street, Victoria Embankment, New Scotland Yard and Richmond Terrace is to be redeveloped by the Ministry of Works as Parliamentary accommodation and Government offices before 1972. It is anticipated that redevelopment work will be started in 1964.

There is, however, one significant part of the notice which the Ministry of Housing and Local Government has issued on the subject which seems to call for com-ment. It is that part which says:

"The Minister has noted the request that consideration should be given to the relocation within the new development of business disturbed by the proposed comprehensive development. He has of business disturbed by the proposed comprehensive development. He has consulted the Minister of Works, who has explained that no disposal or leasing of the proposed development is envisaged except for a limited number of shops, restaurants, and public houses. As far as these are concerned the Minister of Works will be willing to consider the prior claims of those who notify him that they wish to re-establish their businesses in the new development in the light of circumstances then prevailthe light of circumstances then prevail-

This, if I may be allowed to say so, is a notable piece of information. Clearly the Ministry of Works is not all that keen to have all that many shops or commercial premises in the new scheme. The existing businesses will, you may be sure, not be encouraged to submit a "claim", prior or otherwise, to re-establish themselves. And there are any number of ways of discouraging them from doing so, what's more.

Now, to my mind, this could lead to a miserably bad piece of planning, for if there is one part of the metropolis in which generous (not "limited") provision should be made for shops and restaurants, this vast wilderness of grey Government offices and Parliament buildings stretching almost from Trafalgar Square down to Lambeth Bridge is it.

What, after 1964, will the long-locked Member for East Bussleton do for a quick haircut as he slips away from the House in the early evening to change for an official dinner appointment? What, when the appointed day for demolition arrives, will the Under-Secretary's secreary do when her new stiletto heel needs a new stiletto? What, indeed, will the Minister do when Mrs. Minister has asked him to bring home a pound of best stewing steak, and not too much fat, if you don't mind? The answers, on a cold, wet day in midwinter do not bear thinking about. But I hope that the M.O.W. architects who prepare the new scheme will think about them.

Sheer Extravagance?

THE more obvious the wisdom of sink I ing a good-sized part of one's life savings in a new home becomes, the more ready some people are to price the idea from one's mind and purse.

The most recent candidate is Mr. J. P. Lewis, Lecturer in Economic Statistics at Manchester University. Speaking at the at Manchester University. Speaking at the recent meeting of the economics section at the British Association Conference at Norwich he advanced the view that much of today's house-building was sheer extravagance and said "there is a case for imposing a heavy tax on the difference between the building cost of a new house and some reasonable sum, such as £3,000." We could not be said afford to see our We could not, he said, afford to see our scarce resources used for the creation of

personal status symbols. The same could be said of ostentatious fashionable new offices. "Let us apply the acid test; does this help us to produce and to export? If it does not, does it solve a pressing social problem?"

According to one report I read, Mr. Lewis reckons that on a £4,000 house there could be a tax of £500, and on a £5,000, £1,000 tax. He did not think it would be a popular measure.

popular measure.

He's dead right there. And do you know the people with whom it would be least popular? Not, as you may suppose, those who would be required to pay such a tax, but rather those who would have a much better chance of getting a council house if those with large incomes now living in them moved out to hux their own homes. them moved out to buy their own homes.

One of the biggest grumbles on council estates throughout the country is expressed by those who really are in need of assistance in providing themselves with a roof overhead. Too often, council houses are provided for all and sundry, whether or not they need financial assistance, and innot they need financial assistance, and inevitably many families in need are deprived of modest council houses while others, who can well afford to buy their own (at prices not including tax), continue to occupy subsidised dwellings. Such a tax as Mr. Lewis advocates would make it more certain than ever that those living in council houses who can afford to buy their own homes would stay where they are.

Training P.R.O.s

SINCE Peter Trench talked about public relations for building firms at Blackpool in the summer there has been a considerable amount of interest in the subject.

I am told that many firms of public relations consultants are doing their best to take advantage of this interest by approaching building firms and offering their services. Whether or not this will be a good thing for the building firms is not for me to say. So much depends upon the skill exercised by the public relations men. Unfortunately, their fees are sometimes higher than the quality of their services would appear to justify.

I am, however, more than a little

I am, however, more than a little interested in a departure by the London public relations organisation of Andrew Bainbridge and Associates. One of the big problems facing industrial and commercial concerns today is the training of personnel to carry out public relations work. Some of my readers may never have considered that public relations personnel need to undergo any training. This is a general mistake. Public relations is a major part of management; some may even claim that mistake. Public relations is a major part of management; some may even claim that it is an essential part. Andrew Bainbridge and Associates share these views and they are now offering a practical training course for firms' employees. Trainees can receive group instruction or, alternatively, can have individual tuition on their own premises. The course covers the publication of Bress information each literature. nave individual tuition on their own premises. The course covers the publication of Press information, sales literature, advertising copy and company reports, and also includes a study of general public relations attitudes and the importance of public originals. public opinion.

This seems to me to be a useful innova-This seems to me to be a useful innova-tion, particularly as so many exponents in the public relations world today are far below the high standards set by the best professionals. It is probable that because this is so question marks are often raised in the minds of industrialists whenever they consider the subject.

Dangerous Practice

NOT so very long ago I had a letter from Mr. A. E. Ullmer passed to me by the Editor in which he advocated the

idea that the building department of a local authority should be allowed to present an annual trading account.

The letter was published in The Contract The letter was published in The Contract Journal on August 30 and I was hoping that somebody would point out the dangers of such a practice being followed by local authority building departments. Mr. Ullmer says that local authorities are today the housing bodies responsible for housing all types of the community of firmly believe that they should be nothing of the kind, but that is another matter) and in most cases are faced with a large building programme and are using all means available to do this, including building by direct labour (this, again, is another fallacy—direct labour is not another means ing by direct labour (this, again, is another fallacy—direct labour is not another means of building houses, it is merely an uneconomic way of using building trades labour). He also says that it is "hardly sound reasoning to say on the one hand a building department is the same as a contractor and then proceed to restrict its working by not allowing the department a measure of elasticity as enjoyed by contractors." By this, I imagine, Mr. Ullmer means that direct labour department managers should not be required to furnish agers should not be required to furnish separate costings for each individual job.

separate costings for each individual job.

As I say, I was hoping that somebody would have written by now pointing out the weakness of this interesting but impracticable theory. It is that if building departments of local authorities were allowed to operate on an annual trading account basis they would surely have to meet tax liabilities, because this is what the private contractor has to do. I do not think that this would commend itself to very many local authorities, or even building department managers, for that matter.

Timber Enterprise

Co

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WITH the shortage of bricks persisting W I am glad to see that considerable progress is being made by some enterprising firms in the construction of timber ing firms in the construction of timber houses. Hitherto, there has been a tendency on the part of the house-purchasing public to look upon new homes built of timber to be in the nature of shacks or shanties. And I cannot honestly say that the designs of many of them have not helped to sustain this view.

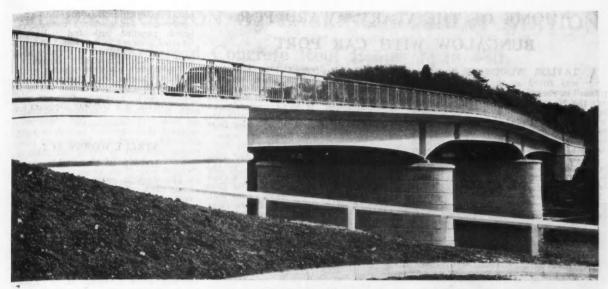
But the wind of change is now upon us and I am particularly pleased to note the

But the wind of change is now upon us and I am particularly pleased to note the results of some hard and imaginative thinking by W. H. Colt, Son and Co., Ltd., of Bethersden in Kent. They are now marketing packaged houses in timber which incorporate the best principles of prefabrication and the most up-to-date drybuilding techniques. The designs available are in my view, even more attractive than building techniques. The designs available are, in my view, even more attractive than most houses built today of traditional materials and the prices are certainly competitive. Only a prepared ground slab required for these new style timber-built houses and site assembly is by selected builders in different parts of the country.

PUBLIC CLEANSING COSTING RETURNS

A summary is now available of the cost-ing returns furnished by the larger urban authorities and a selected number of rural authorities in respect of their public cleansing services for the financial year ended March 31, 1960. Copies of the summary (entitled "Public Cleansing: Costing Returns for 1959-60") may be pur-chased, either directly or through any bookseller, from H.M.S.O., price 5s. 6d. net.

The Minister of Housing and Local Government says he hopes that the summary, which includes detailed analyses of the returns, with comparable costs on a unit basis, will be of assistance to local authorities in reviewing the cost and efficiency of their own public cleaning services.



The new Haw Bridge

COMPLETED HAW BRIDGE REPLACES OLD SEVERN STRUCTURE

WITH a central span of 130ft. and two side spans of 88ft. 6in., a new bridge has been completed across the River Severn at The Haw, and was opened last Friday for Gloucestershire County Council. It replaces the pre-vious cast-iron structure which was erected in 1825.

The old bridge was destroyed at the end of 1958 when a 200-ton vessel, passing downstream with the river in flood, struck the west western span, causing a complete

Temporary Structure

Timber trestle piers were erected by the County Council on which Royal Engineers provided a Bailey Bridge during 1959 as part of their training. This temporary structure not only allowed traffic to cross the river, but also greatly facilitated the construction of the new bridge.

A scheme for the replacement of the destroyed structure was put in hand by the County Council immediately after the disaster, and designs were approved by the Ministry and the Royal Fine Art Com-

mission early in 1959. Administrative problems, however, delayed the placing of a contract until the autumn of that year.

Siting of the old bridge downstream was suggested by the alignment of the road on both banks, but the position of the on both banks, but the position of the spans across the river involved navigational considerations and foundations problems. Due to the bend in the river there is a tendency for the river to move to the west, and for the main current to bear against the west bank when the river is in spate. For this reason British Waterways, the navigation authority, required a full passage under the westernmost span of the new bridge, and this has been provided by the siting adopted, with adequate headroom for normal river traffic under flood conditions.

Double Cantilevers

The superstructure is of double canti-levers with a central suspended span. Plate-web sections were shop welded from notch ductile steel and act compositely with the in-situ reinforced concrete deck. The cantilevers are 120ft. in length, and project

30ft. beyond the piers to support the 70ft. suspended span girders. There are five lines of girders along the length of the bridge, placed at 7ft. centres, with transverse beams, to distribute the loading, at 16ft. centres.

All of the components, including the cantilevers, were designed to be prefabricated, and were given an anti-corrosive metal coating before delivery. No site welding was envisaged or used, the connection of the cross-girders being effected with high-strength bolts. Web-stiffeners have been confined to the inside faces of the main girders, to present a clean elevation and to enhance the slenderness of the superstructure. superstructure.

Expansion has been allowed for with roller-rocker bearings at each end of the bridge and at one end of the suspended span; there are rocker bearings at the other end of the suspended span and at both piers. The parapet is of welded steel panels, hot-dip galvanised before delivery, and capped with a teak handrail.

Piers and abutments are founded on the

and capped with a teak handrail.

Piers and abutments are founded on the marl, and in the case of the western abutment and both piers this lies at a reasonable excavation depth of about 10ft, below the level of the riverbed. In the case of the eastern abutment, however, the marl is some 30ft, deeper, and the abutment face and wing walls are carried on piles. Facing of the piers and abutment is in Portland stone, the particular variety being known at Shelly Whitbed.

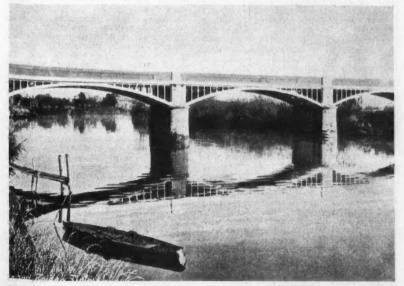
The contractors' vard stores and offices

known at Shelly Whitbed.

The contractors' yard, stores and offices were placed on the completed portion of the approach fill on the west bank, with the concreting plant on the east abutment. Concrete for the west side of the river crossed the Bailey Bridge in a trailer or dumper, and two scotch derrick cranes were positioned so that all parts of the piers and abutments could be reached for piling and concreting. The proximity of an 11kv, supply enabled the derricks and most of the plant to be electric powered.

Construction Technique

Sheet pile cofferdams were used at the west abutment and both piers and the piling driven by diesel hammer and braced with steel frames as excavation proceeded. The east abutment, which is farther from the river, was constructed in a sheeted trench, except where a line of piles was driven to retain the old bridge abutment. The cofferdams were driven to a top (Concluded on page 1693)



The original cast-iron bridge, destroyed in 1958

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"HOME OF THE YEAR" AWARD FOR BUNGALOW WITH CAR PORT

A TAYLOR WOODROW bungalow was voted as the "Home of the Year" in the price range of up to £4,000 at the New Homes Exhibition held in London recently.

London recently.

The three-bedroomed "Sandown" bungalow with, as one of its features, a car port instead of a garage (for which no rates have to be paid) is now being built at new estates at Ramsgate and Herne Bay, Kent, with more planned for another site at Canterbury, and a de-luxe version for a site already being developed at Hindhead, Surrey.

Brick built, the bungalow has its front elevation in cedar board panelling above

elevation in cedar board panelling above

the triple glass-framed 15ft. 6in. long lounge window with a white rendered panel below. The white painted car port, over 19ft. long and 9ft. wide, is supported on metal posts. It has a timber-framed roof, felt finished. Built flush with the front elevation it gives direct access from motor-car to front door.

L-shaped in Layout

The lounge and combined dining room is L-shaped in layout, entrance to the dining area from the hall being through a reeded glass door set in a wide glass panel stretching the full length of the wall. Leading off the entrance hall are three bedrooms with deep fitted wardrobes; a

Exterior view of the "Sandown" bungalow

luxury styled bathroom with plastic topped vanity unit and mirrored cosmetic cup-board, panelled bath and toilet suite. Situated adjacent to the reeded glass front

Situated adjacent to the reeded glass front door, which is framed in a glazed screen over 7ft. wide, is a fitted cloakroom.

The kitchen has been planned with all modern fitments, including opaque glassfronted hanging cupboards. A serving hatch with venetian type blind is incorporated in a two-way cupboard unit.

STREET WORKS ACT Liability of Undertakings

The working party of local authority association officers set up to consider points arising out of the Public Utilities Street Works Act, 1950, have been considering the question of the liability of public utility undertakings for the accuracy of information as to the position of under. ground services.

The working party have expressed the following views:—There is no specific statutory requirement upon a statutory undertaker to supply to a highway authority unqualified information as to the the court could say whether such an obli-gation is implied by the Act.

If a statutory undertaker disclaims responsibility for the information given such a disclaimer should be contested. It is understood that owing to technical advances it is today much easier to locate the position of underground services than bitherto. hitherto.

Highway authorities should resist any suggestion by public utility undertakings that the highway authority must bear the cost of trial holes dug to ascertain the position of underground services.

It is obviously in the interests of both parties that as accurate information as possible should be given to each side in all circumstances.

Reporting on this, the law committee of the Association of Municipal Corporations say they have referred to the working party the question of the inability of highway authorities to control the time at which street works are carried out by public utility undertakers and whether any action should be taken in this connection.

(Concluded from page 1682) cheaper in terms of the national economy because of the reduced interference with traffic.

The paving units are cast in a permanent The paving units are cast in a permanent casting works which serves sites within a radius of about 30 miles. These works were visited by the Pavings Development Group and the placing of a unit was subsequently witnessed at a site in the vicinity of Stuttgart.

Casting Works

The units are cast between road forms on the floor of the casting shed, up to eight units being cast in a single line over wires which are pretensioned between concrete abutments built into the floor of the casting shed, at either end of the stressing bed. abuthents built into the hoof of the casting shed, at either end of the stressing bed. Eight groups of eight wires are used, the load on each group being 22 tons. Transverse reinforcement takes the form of cradles made from reinforcing rods. Four cradles are normally used for each unit, one being placed at each end of the unit and the other two at the lifting points by which the completed unit will be raised. Each unit is provided with seven dowel bars at one end and seven grooves of dovetail section to drop over the existing dowel bars at the other end.

The concrete for the units, which is air-entrained, has an aggregate: cement ratio of 5.5.1 and a maximum aggregate size of \$\frac{1}{2}\$ in. The specified minimum 28 day cube strength is 6,400lb./in.\(^2\) The concrete is compacted by a Vogele finisher which runs on steel rails fixed to the road forms and is finished to a surface tolerance of not

more than ± kin. in 12ft. A brushed finish is given to the units which are then cured in the casting beds for eight days with wet straw matting.

On completion of the initial curing period, the stress in the wires is released and the wires between the units are cut flush to the face of the concrete with silicon carbide cutting wheels. Four lifting holes are drilled from the surface of the unit to the end of each dowel bar groove.

Two steel lifting beams are bolted onto the unit with Rawlbolts which are

Two steel lifting beams are botted onto the unit with Rawlbolts which are tightened in the lifting holes. The unit is then suspended by these beams from a hydraulically operated portal crane which runs on rails laid at either side of the casting bed, and the units are removed to a curing yard where they are stacked to complete the curing period of 28 days,

Repair Method

Repair Method

Damaged bays are first broken up with guided weights dropped from cranes or with pneumatic breakers, and the broken concrete is then removed by excavators fitted with back-acting shovels. Since weak subgrades are the most usual cause of the original failures, about 10in. of the subgrade is also removed and replaced with graded granular material to bring the level of the base to about 1in. below the formation. A regulating course of 2in. of sand bitumen mixture is then laid over the granular base to a surface tolerance of not more than ± \(\tau_i^2\)in. in 12ft., to form a bedding for the precast units.

The units are brought from the casting

The units are brought from the casting

works to the site on low loader trailers which are backed up between rails laid on either side of the area to be repaired. The units are unloaded, again with a portal crane, and each unit is then guided into position by two men with crowbars while it is slowly lowered onto the regulating course. ing course.

When the units have been placed, any small voids between them and the regulating course are filled by injecting cement slurry under a pressure of 60lb./in. through each lifting hole in turn. The dowel bars are grouted into the dovetail grooves by injecting a grout of extrarapid hardening cement through the grouting holes which have been drilled at the end of each groove, fibreboard joint filler being used to ensure that the expansion being used to ensure that the expansion space between each unit is not bridged by the grout. Joints are then sealed and the section is usually reopened to traffic the day following the grouting.

Although many members of the British

Although many members of the British party were not very impressed with this form of construction, the joints of the sections inspected leaving much to be desired, it would appear to have a place in the replacement of small section of pavement but it was generally felt that for a repair of any length in-situ work would have been more satisfactory. Nevertheless, it is perhaps significant that it is proposed to construct a new road in the Freiburg area using this precast slab method. method.

Next week, some details of urban road construction in Mannheim, Ludwigshafen, Düsseldorf and Duisburg.

RECONSTRUCTION OF BARKING RAILWAY STATION

Reinforced Concrete Roof Beams Span 48ft.

A N impressive new station with a high-level roof supported by cantilevered reinforced concrete beams has been completed and opened at Barking, Essex, as part of the large-scale development scheme undertaken in that area to meet the needs of the very heavy passenger traffic handled there.

passenger frame nandled there.
A further stage in the Eastern Region's London - Tilbury - Southend electrification project, the re-construction of the station follows the complete remodelling of tracks, follows the complete remodelling of tracks, provision of flyovers and a diveunder at Barking. A new signal box and accommodation for the technical departments of the Eastern Region and railway operating staff of London Transport have also been availed.

staff of London Transport have and provided.

The lofty concourse of the station spans nine tracks at road level and had to be carefully programmed in order that the day-to-day working of the station should be affected as little as possible. This necessitated the provision of a temporary ticket office, parcels office and booking hall.

The concourse deck, supported by insitu T columns built on piled foundations sunk into the platforms, is of precast prestressed reinforced concrete beams. This possible to

sunk into the platforms, is of precast pre-stressed reinforced concrete beams. This type of construction made it possible to reduce the depth of the deck and so allow additional headroom for electrification, while maintaining the original floor level. The deck beams were erected over the railway during weekends when full pos-session of the tracks could be obtained.

Precast Members

The high-level roof above the concourse is constructed of precast concrete members, the supporting cranked cantileverbeams being capped at the ends by concrete valance units. These beams have a span of 48ft, and project 18ft, beyond the front columns of the concourse, thus forming a canopy and providing cover and lighting to a new road layby on the site of the old station building. The roof is of precast concrete planks, covered by three layers of roofing felt and, with the main beams, is supported by concrete columns 22ft, high. The wall areas between the columns are fully glazed.

At the rear of the concourse is a low-level roof over the ticket office and passage to the platform stairways. Parcels and inquiry offices are provided and confectionery, tobacconist's and newsagent's The high-level roof above the concourse

kiosks open both on to the concourse and the street. The subsidiary framing to the offices and kiosks is of black anodised aluminium sections. The floor finish to the concourse is of terrazzo tiles, and to the offices and kiosks of terrazzo tiles, and to the concourse is of terrazzo tiles, and offices and kiosks of wood block. Extensive use has been made of ceramic tiles for wall facings.

The concourse opens on to East Street, Barking, where a new layby has been provided for cars and taxis.

The new ticket office has seven booking windows and a season ticket lobby, with separate adjoining rooms for the chief separate adjoining rooms for the chief clerk, ticket store and muniments, messaroom, toilets and staff pay lobby. The whole of this accommodation is contained within a block which measures approximately 72ft. by 33ft. overall.

Clear glass screens are fitted to the ticket office and the separate parcels and inquiry offices. These are furnished



Station entrance, showing concrete canopy and road layby

The platform buildings are of brickwork, timber posts and laminated timber beams 14in. deep. Window frames are of anodised aluminium and roofs consist of 2in. tongued and grooved fireproofed cedar boarding. Waiting rooms are provided on all eight platforms and lavatory accommodation is also available on most of these. A messroom is provided for Eastern Region staff on No. I platform together with first aid and storerooms, and tobacconist's and newsagents kiosks have been built within the buildings on plat-forms 3/4 and 5/6.

throughout with standard steel traffic office equipment on a module of 2ft., giving the advantage of wide adaptability, tight appearance and easy maintenance. The glass screen to the ticket office is fitted with Melaphone speaking windows at each of the seven booking positions.

A new subway has been provided connecting all platforms at the London end of the station. This is constructed of reinforced concrete box section cast in situ and tanked with asphalt. It is 12ft. wide and has ramps at a gradient of 1 in 9 to all platforms.

The construction of this was somewhat difficult as it was necessary to support the tracks on temporary way-beams which had been placed in position during a total possession of each pair of platform lines. These were later removed as opportunity offered.

Heating

The heating and hot water supply is effected from a central boiler room which is fully automatic in operation. Here, two "Trianco" oil-fired automatic boilers are installed, each of which can meet the full lead and therefore the supplementation. load and therefore act as a standby to each other. Duplicated Selfix fullway circulating pumps ensure low temperature primary hot water circulations to the heating system and to a 150-gallon copper indirect hot water storage calorifier. Duplicated hot water storage calorifier. Duplicated Selfette pumps ensure the hot water service circulations to within a few feet of draw-offs,

On an enclosed control panel are grouped all starters and controls which include a time clock, a compensator which regulates temperature of heating flow water in relation to that obtaining outside, and a frost stat which will override the time clock in case of necessity. A smoke density indicator is also fitted.

On the face of the control panel are mounted all switches with pilot lights for



Interior of station concourse

manual control if necessary. With the exception of the calorifier, all components are duplicated to meet any possible failures but also to allow full maintenance while keeping the plant in operation. This is necessary since it is in service up to 18 hours a day for seven days a week.

The control system time clock starts the boiler and pumps at pre-set selected times, after which the boilers control themselves automatically according to the heat demand.

demand.

The concourse buildings are heated mainly by "Panelite" embedded hot water tube floor heating occasionally supplemented by some radiators. This system has been selected to obtain a high proportion of radiant heat, avoiding unduly high air temperatures which would have been necessary owing to the very large areas of glass and their consequent heat losses. Platform buildings are heated by standard radiators, the whole system being designed to vent itself automatically. The ticket collectors' booths situated on the concourse are provided with radiant floor heating. heating.

Cold water services are provided by three sectional cold water tanks and piping.

Lighting

Lighting in the circulating area of the concourse is by cold cathode tubes in the form of an illuminated fascia on three sides of the perimeter, and also by a number of floodlight type fittings unobtrusively positioned and specially made to blend with the black concrete supporting structure.

A number of concealed floodlights illuminate the ceiling, which, combined with the black supports and glass panels, enhances the appearance of the large con-course at night and creates an unusual, distinctive appearance.

In the ticket office and ticket collecting areas, reflector type fluorescent tubes are housed in natural light openings so that the artificial light emanates from the same source as the natural light.

Platforms are illuminated by the steaders!

the artificial light emanates from the same source as the natural light. Platforms are illuminated by the standard range of cold cathode fittings specially designed for the Eastern Region, each bearing the station name. Internally illuminated train indicators have been installed on each platform with summarised indicators displayed above the ticket collectors' entrances on the concourse.

All these are remotely controlled from the

Consultants and Contractors

The architect for the station was Mr. H. H. Powell, B.Arch., F.R.I.B.A., architect, Eastern Region, and the whole of the work

Eastern Region, and the whole of the work was carried out under the general direction of Mr. A. K. Terris, B.Sc., M.I.C.E., chief civil engineer, Eastern Region. The electrical installation was carried out under the general direction of Mr. T. C. B. Miller, M.I.Mech.E., chief mechanical and electrical engineer, Eastern Region.

Charles R. Price, Kingsbury Road, London, N.W.9, were the main contractors for the station. W. and C. French, Ltd., Buckhurst Hill, Essex, constructed the subway and signal box, and piling was carried out by Holmpress Piles, Ltd., 197 Knightsbridge, London, S.W.7. The technical departments' accommodation was built by Herbert Richardson and Sons, Ltd., 59 Mount Pleasant, London, W.C.1.

BRICK AND TYRE PRICES CUT

With effect from last Sunday, the London Brick Co., Ltd., have cut the price of their common bricks by about 1½ per cent.—a reduction of 2s. on every 1,000 bricks. In a statement the company said the re-

duction was being made at a time when de-mand for their products still greatly exceeded production. The reduction would therefore be generally welcomed as a deflationary step.

As from last Monday, Dunlop, Good-year, Michelin and Pirelli tubeless and tube year, Michelin and Firell tubeless and tube tyres and inner tubes for cars, commercial vehicles and agricultural use have been reduced in price by about 6 per cent., or 1s. 2d. in the £.

Dunlop said that trading margins allowed to distributors would be reduced appropriately. Dunlop prices to consumers of earthmover, barrow and trolley tyres are reduced about 3 per cent.

MOTORWAY SERVICE AREA CONTRACT

Mr. Ernest Marples, Minister of Transport, announces that the Rank Organisation, Ltd., of London, have been awarded the contract for the development of the Knutsford Service Area on the Cheshire section of the Birmingham-Preston Motor-



Some 50 members of the West of England and Devon and Cornwall branches of the Institute of Quarrying were recently guests of the Holman Group at Camborne. After lunch at St. Ives the party visited the Holman Test and Experimental Mine for demonstrations of quarrying equipment. The photograph shows a group watching the Holtrac crawler-mounted drill rig being put through its paces

ROAD IMPROVEMENTS IN HAMPSHIRE

REPORTING on progress made with road improvement schemes in the county, Hampshire County Roads and Bridges Committee draw particular attention to the improvements on the sections of Road A.31 between Winchester and Bentley, where dual carriageways are being

The committee say it is not yet possible to improve the road throughout its length because it passes through Alresford, Four Marks and Alton, where by-passes are re-

The construction of these intermittent

The construction of these intermittent lengths has created traffic engineering problems connected with the design of the termination of the dual carriageways. Where these lengths are fairly short, motorists do not become accustomed to single-way traffic for a sufficient period to lose sight of the possibility of meeting on. coming traffic, and it is sufficient to erect "Keep Left" signs at the approaches to the single carriageway with guide lines and "cat's-eyes."

Where the dual carriageways are longer, where the dual carriageways are longer, motorists need more emphatic warning of their termination and special care is necessary in choosing the point at which twin carriageways revert to a two-way

The committee report: "The best place is where there is an easy right-hand bend with a long view of the joining of the twin and single carriageways. This is to avoid the most dangerous situation which would arise from an overtaking motorist's view ahead being masked by the vehicle he is contraking

he is overtaking.
"The limitatio he is overtaking.

"The limitation of funds often means that ideal site conditions for the termination of a dual carriageway system cannot be obtained and sometimes the change from double to single carriageways has to take place on a straight length of road or even on a left-hand bend. In such cases special signs, repeated at suitable intervals, are essential, in addition to the familiar reversed arrows indicating two-way traffic." reversed arrows indicating two-way traffic.'

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ADVANCE PAYMENTS FOR PRIVATE STREET WORKS

The law committee of the Association of Municipal Corporations have made it clear that in their opinion bonds offered by

Municipal Corporations have made it clear that in their opinion bonds offered by recognised insurance companies and banks could reasonably be accepted as a form of security under the advance payments code for private street works as contained in the Highways Act, 1959.

This is in the published reply to a letter from an authority seeking the A.M.C.'s views and saying that they had to date, in spite of strong representations by certain developers, consistently refused to accept such bonds on the grounds that they did not constitute a security which was readily realisable should default occur in completion of any private street works. The council had, therefore, as a matter of policy, always asked developers to deposit either the requisite sum of money or the title deeds of some substantial and sufficient property.

The letter (from the Town Clerk) continued: "The matter may, however, arise again in the near future and with this in mind I should be grateful for any information on the subject which you can give me. "I might add that I have posed the same question to the Ministry of Housing and L.G. and the Ministry have replied that in their view the particular section of the Highways Act does not exclude the acceptance of a guarantee bond but that it is a matter for the local authority to decide in each particular case whether a bond so offered represents sufficient. "It would, of course, be a somewhat." security.

"It would, of course, be a somewhat invidious task for a local authority to decide upon the relative merits and standing of any guarantor whose bond was offered to them, and for this reason the policy previously adopted is being continued for the time being."

PORT GLASGOW FACTORY FOR SOLDERLESS TERMINAL **PRODUCTION**



External view of new factory

WITH a total area of 50,000 sq. ft., a new factory erected on the Port Glasgow Industrial Estate, Renfrewshire, by Industrial Estates Management Corporation for Scotland, was opened recently by the Secretary of State for Scotland for the tenants, Aircraft-Marine Products (Great Britain), Ltd.

Marine Products (Great Britain), Ltu. Already producing a large variety of solderless terminals, the factory is 300ft. long by 130ft. 6in. wide on the ground floor. This space consists of six units, each 50ft. wide, with a covered loading bast the eastern end, measuring 50ft. by 43ft. In the basement, which is served by a goods lift, is an accommodated storage space with loading dock, boilerhouse, fuel

oil storage tank room and electricity switch room.

Steel-framed Structure

The factory structure is steel framed with outside walls of 11in. cavity brick roughcasted on the outside and pointed on the inside and distempered. Steel windows are of the industrial type.

The floor is constructed of concrete slabs with granolithic finish, and a pitched roof on steel trusses 12ft. high from floor to tie level is covered with asbestos-cement combined sheets with fibreglass infill. There is a stretch of patent roof glazing on each side of the ridge in all the bays, with a series of Colt ventilators at the ridge of the roof to provide two air changes per the roof to provide two air changes per hour by natural ventilation.

Offices are of two storeys in height, 18ft. deep on the south of the factory, facing Dubbs Road. They have Ilin, cavity brick outer walls faced with facing brick between the windows and roughcast elsewhere. Inner walls are plastered and distempered. The floor and roof slabs are of precast concrete hollow slab, and floors are screeded and finished with thermoplastic tiles. Ceilings are plastered and distempered, and the roof is screeded to falls and finished with rock asphalt.

A feature has been made of the entrance hall and main staircase, with walls decorated in contrasting tones of wallpaper, a "lumenated" ceiling over the entrance hall and mahogany open screen at the enquiry

and mahogany open screen at the enquiry

Heating and Electrical

Heating and Electrical

Heating is by means of fan unit heaters supported from trusses within the factory and fed with accelerated hot water from two low-pressure hot water heating boilers sited in the boilerhouse.

The unit heaters have their four motors automatically controlled from air thermostats sited within the factory. Offices are heated by radiators. The maximum rating of each of the boilers is 1,982,000 B.Th.U's, per hour and will be fired with fuel oil of 200 seconds viscosity Redwood No. 1 by means of an automatic oil burning unit. These boilers are to be used solely for space heating.

These boilers are to be used solely for space heating.

Instrumentation of the boiler plant consists of working and limit thermostats controlling the oil burning unit which also incorporates an automatic flame failure device with integral automatic control of the oil preheating temperature prior to atomisation.

Smoke outlets from the boiler are connected into a brick chimney, which is fitted

nected into a brick chimney, which is fitted with lightning conductor.

with lightning conductor.

Electrical installation consists of a main switchboard, comprising main switch and outgoing switch fuses controlling boiler-house, factory lighting and office lighting. Wiring is by means of p.v.c. cables run in trunking and conduit to positions of lighting fittings throughout the factory and offices. Conduit is on surface throughout the factory, and is concealed in the offices. Electric supply is also run to the fan unit Electric supply is also run to the fan unit (Concluded on next page)



General view of press room

WIDENING OF MARYLEBONE ROAD

L.C.C. Land Acquisition Estimate

THE L.C.C. have approved an estimate of £586,500 for the acquisition of land required for the widening of Marylebone Road, N.W.1, from Park Square East to Harewood Avenue. Compulsory powers

may be required.

The improvement will provide for six lanes of traffic through Marylebone Road and the cost of the engineering works is likely to be £370,000.

and the cost of the engineering works is likely to be £370,000.

Much of the land affected by the improvement is Crown property and can be purchased only by agreement. It includes Ulster Place, Park Square and Crescent Gardens, which are protected squares, The lodges in Crescent Gardens and Park Square, with the lengths of railings linking them are of architectural and historic interest and form part of the architectural treatment of Park Square and Crescent Gardens designed by John Nashas a formal approach to Regent's Park. The lodges, railings, standards and plinths will be re-erected in similar relative positions on the widened road.

On the north side of Marylebone Road it will be necessary to acquire Harley House Enclosure, a protected square, although the whole of the square will not be needed for the widening.

On the south side the land required includes the subway entrance to Baker Street station and it is hoped to reach agreement with the London Transport Executive on the acquisition of this site. Interference will also be necessary with the Regent's Park tube station entrance. The forecourt and front entrance steps of St. Marylebone parish church will also be affected and to acquire this land it will be necessary to obtain an amendment to the

The forecourt and front entrance steps of St. Marylebone parish church will also be affected and to acquire this land it will be necessary to obtain an amendment to the Development Plan designating the land as subject to compulsory acquisition.

The Council have already approved the widening of Marylebone Road between Albany Street and Park Square East as an extension of the adjoining Euston Road underpass scheme. The present scheme thus completes the whole lengths between the underpass and the Harrow Road/Marylebone Road flyover.

AUGUST HOUSING FIGURES

The number of permanent houses completed in Great Britain during August was 23,549 (compared with 24,330 in August, 1960) of which local authorities were responsible for 8,111 and private builders for 14,923.

(Concluded from previous page) heaters controlling thermostats and valves. Windows in the offices and lavatories are of the industrial type with opening parts. Yard space and areas for car parking are

also provided. The total area of the scheme extends to 50,000 sq. ft. and the approximate cost amounted to £125,000.

Consultants and Contractors

Wylie, Shanks and Partners, 12 Clairmont Gardens, Glasgow, C.3, were the architects for the factory. The quantity surveyors were James Barr and Son, Glasgow, and the heating and electrical consulting engineers were Donald Smith, Seymour and Rooley, Glasgow, Melville, Dundas and Whitson, Ltd., 21 Blythswood Square, Glasgow, C.2, were the main contractors.

Square, Glasgow, C.2, were the main contractors.

Among the principal sub-contractors were the following: Siegwart Floor Co. Ltd.—concrete floor and roof beams; Durastic, Ltd.—asphalt work; Hamilton and Forbes, Ltd.—joiner work; Crittall Manuf, Co., Ltd.—steel windows; Scottish National Glazing —steel windows; Scottish National Glazing Co., Ltd.—side wall glazing; Frank B. Price and Co. (Roofings), Ltd.—asbestos roof sheeting; Mellowes and Co., Ltd.—roof glazing; Duncan Johnson, Ltd.—plumbing; Thoms and Bell—plaster work, Marley Tile Co., Ltd.—thermoplastic floor tiling; John Gemmell, Ltd.—rough caster; Samuel Gibson and Son., Ltd.—heating; Jas. Scott and Co. (E.E.), Ltd.—electrical.

ENGINEERS DISCUSS MANCHESTER RAIL BRIDGES

THE reconstruction of three railway bridges in the City of Manchester, believed to be the largest prestressed concrete spans yet built to carry mainline traffic, was the subject of a discussion by engineers in London last Tuesday evening.

Mr. Frank Turton, assistant engineer Mr. Frank Turton, assistant engineer (bridges) of the London Midland Region, British Railways, presented a Paper at the Institution of Civil Engineers on these bridges which carry the Stockport-Manchester line.

He said that on preparing the preliminary time-table for Bridge No. 23 (Stockport Road) with the slow steel deliveries then current, the date for completion demanded by the electrification programme could not be met. Consequently, an alternative scheme was planned using readily available materials.

The possibilities of prestressed concrete The possibilities of prestressed concrete were studied and it was found that a similar bridge, though heavier than steel, could be built in this material. It appeared from the limited information then available on the cost of prestressed concrete underbridges—none of this size having been built previously—that there would be little difference in the total cost whichever material was used.

For Bridge No. 30 Hyde Road and

For Bridge No. 30 Hyde Road and Bridge Nos. 8A, 8B and 36 Fairfield Street the steel delivery situation also compelled the designer to turn to other materials.

the designer to turn to other materials.

On the Stockport Road Bridge, explained Mr. Turton, as there was not sufficient room to allow all four girders to be assembled together each one after assembly and "weighing" was first rolled into position under the Up line, and by successive stages the first girder reached the final position on the Down line. Each girder, with ballast and permanency, weighed about 738 tons.

The author considered that the fact that

The author considered that the fact that the first girder, which had taken up successive positions under each of the four lines, did finally arrive in its true position (having carried live loads in the mean time) was evidence of the forethought and atten-tion to detail which was given to the whole operation.

£300,000 JARROW QUAY CONTRACT

A contract, estimated to cost £300,000, has been placed with Sir Robert McAlpine and Sons (North Eastern), Ltd., 81 Jesmond Road, Newcastle upon Tyne, by Shell-Mex and B.P., Ltd., for the first stage of the Jarrow Quay Improvement Scheme. The scheme is divided into two stages and will, when complete, provide a jetty capable of berthing tankers up to 28,000 tons deadweight. The total cost of the project is estimated at about £600,000.

HURST PARK RACECOURSE PLANS

HURST PARK RACECOURSE PLANS
Housing development is expected to commence on the Hurst Park Racecourse, West Molesey, Surrey, at the beginning of 1963 by a new company in which Hurst Park Club Syndicate and Wates, Ltd., will hold interests. Detailed planning permission has not yet been obtained, but it is thought that about 800 houses and flats will be erected on 54 acres of the site. A final decision on the development will be made in March of next year, when there will be a shareholders' meeting of Hurst Park Club Syndicate.

BUILDING ESTIMATORS' ANNUAL GENERAL MEETING

The annual general meeting of the Institute of Building Estimators will be held this year at the Kensington Palace Hotel, De Vere Gardens, London, W.8, on Saturday, October 28, at 2.30 p.m.

Late Construction News

BIRMINGHAM UNDERPASS. — Subject to Ministry of Transport approval, work is expected to start in November on the Aston Six-Ways Underpass for Birmingham City Council. The £538,711 tender of Robert M. Douglas (Contractors), Ltd., 395 George Road, Birmingham, 23, has been recommended for the contract, which comprises a dual carriageway underpass about 1,200ft. long, with two reinforced concrete overbridges, one prestressed concrete footbridge and two pedestrian subways. The consulting engineers are Sir William Halcrow and Partners, 47 Park Lane, London, W.1.

SEWAGE WORKS CONTRACT.—A £317,000

Sewage Works Contract.—A £317,000 contract for a new sewage disposal works has been awarded to R. T. Haley and Co., Ltd., Hunsworth, Cleckheaton, Yorks, by the Walton-le-Dale (Lancs.) U.D.C. The consulting engineers are Charles J. Lomax and Son, 68 Barton Arcade, Manchester, 2.

and Son, 68 Barton Arcade, Manchester, 2.

MULTI-STOREY FLATS. — Doncaster B.C. have been recommended to accept the tender of George Wimpey and Co., Ltd. London, W.6, at £859,164, for the erection of three blocks of 14-storey flats and two blocks of nine-storey flats in the Central Area. A total of 321 flats is to be built. PILING FOR TILBURY "B". — Holloway Bros. (London), Ltd., 157 Millbank, London, S.W.1, have been awarded a contract by the Central Electricity Generating Board for pilling work at Tilbury "B" Power Station. Valued at over £1m., the contract includes the casting and driving of about 17,500 reinforced concrete piles. CITY POLICE STATION.—City of London

CITY POLICE STATION.—City of London Corporation are seeking Home Office authorisation to invite tenders for building a £750,000 divisional police station at Love Lane and Wood Street, E.C.2. Farquharson and McMorron, 14 North Audley Street, London, W.I., are the architects.

London, W.1, are the architects.

SWINDON NEIGHBOURHOOD CENTRE.—
Swindon B.C. propose to accept the tender of A. J. Waite and Co., Ltd., New Maldon, Surrey, for the erection of the first stage of the Park Neighbourhood Centre at a cost of £404.296. The £151,391 tender of Building and Public Works Construction Co., Ltd., Headlands Grove, Swindon, is also to be accepted by the Council for 72 houses and 57 garages at Park South Neighbourhood. Neighbourhood

BIG LUTON CONTRACTS.—At their recent meeting Luton B.C. were recommended to accept the following tenders: (1) 259 Easiform houses and 74 old people's dwellings; and (2) roads and sewers at Lewsey estate—John Laing Construction, Ltd., Mill Hill, London, N.W.7, (1) £657,105 and (2) £94,138; multi-storey car park at Regent Street—Holland & Hannen and Cubitts (Gt. Britain), Ltd., 1 Queen Anne's Gate, London, S.W.1, £118,000.

LEYTON DWELLINGS.—Leyton B.C. have placed a contract with J. and J. Dean (Contracts), Ltd., Ruckholt Close, London, E.10, for building 125 dwellings, 64 garages, pram stores and a service roadway in the second stage of the Crescent Road Redevelopment Area, and laying out an open space at Carlisle Road/Shaftesbury Road. The tenders amounted to £372,666.
£600,000 CITY OFFICES.—Following their contract for the foundation of the Suiss BIG LUTON CONTRACTS. -At their recent

£600,000 CITY OFFICES.—Following their contract for the foundations of the Swiss Street, London, E.C.2, Holloway Bros. (London), Ltd., have been awarded the contract for the superstructure, valued at about £600,000. David du R. Aberdeen and Partners, 19 Southampton Place. London, W.C.1, are the architects.

RAILWAY CONTRACTS.—The North Eastern Region of British Railways have placed contracts with Derek Crouch (Contractors), Ltd., Peterborough, for the following schemes: Demolition, earthworks and drainage works at Borough Gardens. Gateshead, £105,556; earthworks and drainage works at Newport marshalling yard, Middlesbrough, £224,182.

SOUTHEND PAVILION.—Southend B.C.

SOUTHEND PAVILION.— Southend B.C. have accepted a bid of £341,832 from Gay. Conoley and Co., Ltd., 29 Stephenson Street, London, E.16, for building the third and final stage of the Cliffs Pavilion.

OFFICES AND FLATS IN SIX-STOREY WEST-END DEVELOPMENT

Reinforced Concrete Frame Construction

SIX-STOREY block containing A offices, showrooms and flats is being built at 24-27 Great Pulteney Street, London, W.1, on a site where once stood four town houses, with stables and coach houses,

The site is being redeveloped on a 99 year lease from Richard Sutton Settled Estates, by Wates, Ltd. Designed by Cubitt Nichols, F.R.I.B.A., the new building consists of a basement car park, a large display area on the ground floor, offices from the first to fourth floors, three flats on the fifth floor.

and a penthouse flat on the sixth floor.

on the sixth floor.

The building is of

reinforced concrete reinforced concrete frame construction, on massed rein-forced column foundations and is faced with hand-made, sand faced golden bricks. made, sa golden Panels be Panels between the windows are of precast exposed aggregate grey con-crete with flecks of red and white colour-ing. The facia and surrounds to the display windows are display windows are of beige marble, and windows are metal framed with timber sub-frames picked out in colour.

The staircases and dados will in part be carried out in

terrazzo tiling, and the main entrance hall on the Great Pulteney Street frontage will be lined in marble.

The basement car park for 16 cars has an automatic hoist. Each car passes from the hoist to a turntable thus providing for ease of parking. The basement also houses the ground floor toilet accommodation, the heating chamber, fuel tank, and transformer room. transformer room.

Offices on the first to fourth floors are of the open plan type.

The fifth floor consists of three flats, Flat I includes a bedroom, bathroom and dressing room suite and a combined dining-living room with an adjoining fitted kitchen area. In flat 2 are a combined distributions of the suite ntted kitchen area. In flat 2 are a com-bined dining-living room with an adjoining kitchen area, two bedrooms and a bath-room. The main bedroom has access to a paved terrace which runs the length of the building on the Great Pulteney Street frontage. Flat 3 consists of a combined dining-living room, separate kitchen, a bedroom with access to a terrace and a bathroom.

On the sixth floor the penthouse flat comprises a living room, dining room, kitchen, a master bedroom suite with a bathroom and dressing room, two secondary bedrooms and a secondary bathroom. This floor also houses the lift motors and

the tank rooms.

The building is served to the fifth floor by an Otis passenger/goods lift. Offices and showrooms are heated by hot water radiators supplied by oil-fired boilers



Artist's impression of the completed building

installed in the basement. The four flats are similarly heated and domestic hot water will be provided by either electric or

gas operated individual heaters.

The contract was started in May 1961 and is scheduled to be completed in May 1962.

Sub-contracts placed to date include: Painting—T. H. Kenyon and Sons, Ltd.; plumbing, heating and ventilation—Matthew Hall and Co., Ltd.; electrical—Bective Electrical Co., Ltd.; metal windows Bective Electrical Co., Ltd.: metal windows —W. B. Casement and Engineering Co., Ltd.: plastering—Jeffries and Grant, Ltd.; thermoplastic floor tiling—The Marley Tile Co., Ltd.; linoleum floor tiling—Durastic, Ltd.; wall tiling—Herbert H. Nutman, Ltd.; asphalt—The Rock Ashpalte Co., Ltd.; Paropa roofing—Frazzi, Ltd.; glazier—Leay Glazing Service, Ltd.: terrazzo—The Arcanum Terrazzo and Stone Co., Ltd.; lifts—Otis Elevator Co., Ltd.

5 MILLION HOUSES NEEDED OVER NEXT 20 YEARS

A DDRESSING the annual general meeting of the Housing Centre in London
last week, Mr. J. R. James, chief planner,
Ministry of Housing and Local Government, said that 5 million new dwellings
must be built in England and Wales to
meet the demand for homes in the next 20
years. Of these, 2 million would be needed
to satisfy the needs in the four great
conurbations of London, Manchester,
Birmingham and Liverpool. conurbations of London, Birmingham and Liverpool.

He said that the target of 5 million dwellings was not something which should be a mere dream. "To me it is the most modest figure we should aim at. Anything less will be socially undesirable."

less will be socially undesirable."

Mr. James forecast a certain demand for 500.000 new houses in and around London without interfering with the green belt, after allowing for a further 500,000 homes being found by raising densities. In the areas around the green belts where land was precious he emphasised that there would be need to build at greater density, adding: "This precious land should not be squandered at two, three or four houses squandered at two, three or four houses to the acre".

By 1964 or 1965 Mr. James estimated that 100,000 new houses a year would be needed to meet the demand from new families alone. Also there was the constant need to replace out-moded and slum houses. By far the worst housing conditions, looked at not in terms of numbers but in terms of quality, were to be found almost wholly coincident with the centres of industry established in the nineteenth

The speaker put the number of houses which needed to be replaced each year at 150,000, giving a need for 250,000 new houses a year, without taking into consideration problems of multi-occupation and immigration.

COMMON MARKET DISCUSSED AT R.C.A. LUNCH

Britain and the Common Market was the subject of a talk given last week at a luncheon held in London by the Reinforced Concrete Association.

The speaker was Commander K. Cohen,

European adviser to the United Steel Companies, who gave a short resumé of the present situation, followed by an account of events leading up to the formation of the European Economic Community (The Common Market) and the European Free Trade Area.

After examining the impact of the situ-After examining the impact of the situation on British industry, Commander Cohen said that his reply to the question "Can we afford to come into the Common Market?" was to put the further question. "Subject to obtaining honourable conditions for ourselves and our partners in the Commonwealth and E.F.T.A., can we afford to remain out?"

(Concluded from page 1687)

level slightly above the river stopbanks, as higher floods would isolate the site anyway. In the east river pier, foundation conditions were worse than anticipated due to a shelving area of fissured marl. Additional boreholes showed the extent of the weak area and an extra depth of foundation concrete was laid, and the marl pressure-grouted below it.

Abutment wing walls and the face of the east abutment are supported on precast prestressed concrete piles, driven with the hammer used for the sheet piling. The piers and wing walls were concrete, using cantilevered plywood faced forms on the inside, and the masonry facing on the utiled. outside, the latter being raised course by

The structural steelwork weighs 280 tons and was fabricated at the Scunthorpe works of the sub-contractors. Hand welding was used throughout, with low hydrogen electrodes.

Erection of the cantilever girders was carried out with a 120ft. derrick guyed to both sides of the river, which was itself erected by the scotch derricks on each bank in turn. The suspended span girders were rolled onto the Bailey bridge and placed by a mobile crane positioned over one of the timber piers. All the steelwork was delivered by road.

Painting was preceded by shot-blasting,

was delivered by road.

Painting was preceded by shot-blasting, and zinc-spraying to a thickness of .005in., this treatment being applied in the fabrication shops. An etch primer, a zinc chromate primer and a micaceous iron-ore undercoat were then applied at the works and the finishing coat of Alkyd gloss paint

was applied after erection.

The deck was concreted on forms supported on the steel girders, and the footway forms were cantilevered out from the completed sections. Concrete was placed in a sequence arranged to minimise the deflection of the bridge beams and to induce compression in the slab under dead

New approaches on both sides of the river were constructed by the County Council's direct labour under the direction of the divisional surveyor, Mr. C. D. Trinder, A.M.I.C.E. Marl filling was obtained from other works, and the base construction is in South Cerney gravel compacted with rollers and bivrating plate. A hot-rolled asphalt surface is continuous over the bridge.

Designers and Contractors

The bridge was designed in the office of Mr. R. A. Downs, B.Sc., M.I.C.E., M.I.Mun.E., county surveyor, by Mr. S. C. Brown, M.I.Struct.E., A.M.I.C.E. The contractors were Tarslag, Ltd., latterly amalgamated with Tarmac Civil Engineering, Ltd., Wolverhampton. Among the principal subcontractors were the following:—Stonework, Bath and Portland Stone Firms, Ltd.; steelwork, United Steel Structural Co., Ltd.; pressure grouting. The Cementation Co., Ltd.; parapet, The Gwalia Forge Co., Ltd., Wrexham,

Men and Movements

SIR FREDERICK PILE, chairman of the SIR FREDERICK PILE, chairman of the Cementation group of companies, has left by air today for a business tour of the United States and Canada. His American itinerary includes Los Angeles, San Francisco, Cleveland, Washington and New York. In Canada his tour will take him to Vancouver, Calgary, Saskatoon, Winnipeg and Toronto. He plans to visit various projects being carried out by the Canadian company of the group, including the Patience Lake Shaft, Saskatoon and the Yarbo Shaft at Esterhazy, near Calgary. Sir Frederick is due to leave New York for London on October 27.

Andrew Scott (Civil Engineers), Ltd., have an-nounced the mpointment of Mr. J. Vaughan Williams, D.S.O., O.B.E., T.D., D.L., M.I.C.E., as general manager of the company. of the company. He has had wide experience in the civil engineering building industries, and has held posts with consulting engi-



neers, contractors J. VAUGHAN WILLIAMS and public authori-

ties both at home and overseas.

Mr. Sidney H. Ireland, B.Sc. has been appointed managing director of Consolidated Pneumatic Tool Co., Ltd., in succession to Mr. Norman Readman, who becomes chairman of the board. Mr. becomes chairman of the board. Mr. Ireland, who was for some years general manager of the Birmingham Small Arms Co., Ltd., joined Consolidated Pneumatic at the beginning of 1960 as assistant managing director.

The North British Rubber Co., Ltd., have announced the appointment of Mr. David C. H. B. Lewis as technical sales representative for South Wales and the west of England for their industrial products division. Mr. Lewis was at one time with B. T. R. Industries.

Mr. R. B. W. Bolland, formerly general manager of Head Wrightson, Stockton, Ltd., has been appointed London manager of Head Wrightson and Co., Ltd.

Sir Alexander Sim has been appointed to the board of Cementation Co., Ltd.

Turner and Newall, Ltd., have appointed as public relations officer to the group Mr. W. P. Howard, who, in order to take up the appointment, has resigned his position as publicity manager of Ferodo, Ltd., one of the constituent companies of the Turner and Newall group. He is succeeded at Ferodo by Mr. P. R. W. Jupe.

After serving Albion Motors, Ltd., of Glasgow, for 51 years, Mr. H. J. Camplin has relinquished his position as a director of the company.

Sintered Products, Ltd., a member company of the Sheepbridge Engineering group, have announced that Mr. John Carter, their technical representative for the area covering Derbyshire, Yorkshire and the North East, will in future include Lancashire, North Wales and north west England in his itinerary.

The Gold Medal of the Town Planning Institute, awarded for outstanding achievement in town and country planning, has been presented to Sir William Holford, professor of town planning in the University of London, and a past president of sity of Lond the Institute.

Mr. J. L. Knivett, who has been with Twentieth Century Equipment Co. (London), Ltd., for a number of years in the capacity of plant hire manager has



J. L. KNIVETT

E. D. BOND

now been promoted to commercial manager, and Mr. E. D. Bond has been appointed plant hire manager. Mr. Bond was previously with Thos. W. Ward, Ltd.

Newly appointed to the board of Concrete (Scotland), Ltd., is Mr. J. G. Gulliver, chief engineer of the Scottish works of the company.



Several Members of Parliament for constituencies in north-east England recently inspected the modernisation and expansion programme now in progress at the Newcastle plant of Caterpillar Tractor Co., Ltd. The photograph shows the visiting M.P.s with members of the Newcastle staff (left to right): Mr. W. Stones (M.P. for Consett); Mr. P. Grieve (quality control manager); Commander J. S. Kerans (M.P., Hartlepool); Mr. R. Burrough (chief engineer); Mr. R. W. Elliot (M.P., Newcastle North); Mr. N. Pentland (M.P., Chester-le-Street); Col. R. T. Edwards (manager of Newcastle plant); Mr. C. F. Grey (M.P., Durham East); Mr. E. R. Green (employee relations manager); Mr. E. Popplewell (M.P., Newcastle West); Mr. W. R. Blyton (M.P., Houghton-le-Spring); Dr. H. MacKay (plant medical officer)

Reconstruction of the top management of Chrysler Corporation, of Detroit, following the resignation in July this year of Mr. L. L. Colbert, has now been completed. Mr. George H. Love has been appointed chairman of the board and chief policy officer of the Corporation. Mr. Lynn A. Townsend, who succeeded Mr. Colbert, continues as president, and has also been appointed chief administrator and operating officer. Mr. Irving J. Minett, group executive and chief operating officer of the Corporation's international operations, has been elected a vice-president.

Mr. W. C. Vickers, who joined Ruston and Hornsby, Ltd., in 1949, in the early days of their gas

turbine develop-ment, and became chief engineer, gas turbines, in 1956, turbines, in 1956, has rejoined the company as engineering manager, turbo machinery and allied products division. For the past 2½ years, Mr. Vickers has been with Brown Boveri, Baden, Switzerland, on research and research and development work on centrifugal and axial compressors.



M n a A a h e O to T to

W. C. VICKERS

The chairman and directors of J.D. Tractors, Ltd., respectively Mr. A. N. Dixon, Mr. P. E. Fleming and Mr. A. E. G. Dixon, are visiting the European head-quarters of the John Deere-Lanz organisation at Mannheim, Western Germany. The object of the visit is to attend the first export dealers conference. Also at Mannheim is Mr. P. L. Richards, service manager of J.D. Tractors, attending a special service course on the care and maintenance of John Deere-Lanz tractors and equipment.

Mr. Dennis S. Beard, Ph.D., A.Inst.P., A.R.C.S., B.Sc., has been appointed to the board of Griffin and George (Sales), Ltd., in the capacity of technical sales director. Dr. W. J. Bates, Ph.D., B.Sc., has joined R. and J. Beck, Ltd., a member of the Griffin and George group, as chief engineer.

Mr. Robert Jolliffe has been appointed sales director of Standard Range and Foundry Co., Ltd., and will transfer from the London office to the company's head-quarters at Watford.

Among passengers recently sailing on the "Queen Elizabeth" for New York was Mr. Donovan Drewery, chairman of Kirk and Kirk, Ltd.

Mr. F. C. Crosse, a director of Parkinson Cowan International, Ltd., left recently to make a six-week investigation of markets in the Far East.
Mr. Crosse will spend the major part of his time in Japan. While there

e will carry out market survey reconnaissance for all Parkinson all Parkinson
Cowan products
covering the gas,
liquid and electrical industrial
and domestic
fields. After
leaving Japan on
October 15 he will
visit Hong Kong
and Singapore,
before spending



F. C. CROSSE

and Singapore, F. C. CROSSE before spending two weeks in Australia where he will visit Sydney and Melbourne. Mr. Crosse will return to London early in November via New York, where he will further the group's export development programme.

MINISTER INSISTS ON SLUM CLEARANCE PRIORITY

"No Falling Off This Year"

IMPROVEMENT grants and slum clearance were discussed by the Minister of Housing and Local Government, Mr. Henry Brooke, when he addressed the annual conference of the Association of Public Health Inspectors

Association of Public Health Inspectors at Brighton recently.

On the latter he said: "About 850,000 houses in England and Wales were estimated to be unfit at the end of 1955. Of these, local authorities said they hoped to deal with 375,000 by the end of 1960. This turned out to be a very ambitious

"Sum clearance had been virtually in abeyance for 15 years; and I think that councils underestimated the difficulties they would find in reaching that very high annual level of clearance and rehousing.
I do not think this should cause surprise

"The actual achievement is impressive: between the beginning of 1956 and the end of March this year almost 270,000 houses were demolished or closed, and not

houses were demolished or closed, and not far short of 800,000 people were rehoused.

"The signs are that this year there will be no falling off in the overall clearance figures. In 1961, as in the last three years, round about 60,000 houses should be pulled down or closed and 160,000 people rehoused in England and Wales alone.

"In carrying out slum clearance, local authorities have encountered and overcome a great many difficulties. There are not only the problems inherent in the task of inspecting houses and establishing what are their defects, but in the work of redevelopment and rehousing there are far more difficulties than the uninitiated imagine. imagine.

Conflicting Demands

"There has been the pressure of conflict-"There has been the pressure of conflicting demands on the resources of local authorities and also on the resources of the building industry. In many areas there have been shortages of technical staff of various kinds; and the work of moving large groups of people to new areas creates all sorts of social problems,

"Many of these problems will remain as long as slum clearance itself remains a problem. People sometimes ask me why

we can't get rid of all slums as fast as mass we can't get rid of all slums as fast as mass production can produce motor cars; and the answer is that slum clearance is not and cannot be a factory job—it is so closely concerned with families and people.

"There have also been financial difficul-ties arising out of the frequent post-war strains on the national economy. These made some restriction of public expendi-ture necessary in late 1957, and again in recent months.

"I am glad to say that these financial restrictions have not adversely affected the rate of slum clearance, and I hope they will not, because slum clearance is first priority in the Government's housing

"I realise they may have made it more difficult for some local authorities. But as a whole they have succeeded in keeping slum clearance at the top of their list of housing priorities, and the achievements of local authorities throughout the country deserve high praise.

"The very real economic difficulties which would threaten the whole basis of our people's life unless we overcome them have compelled me to ask local authorities but I have told them, and I will say it again now, because it cannot be said too often, that slum clearance must remain the first priority; and whatever they decide to cut, I want it not to be that."

£3M. CEMENT WORKS PLAN **APPROVED**

The Minister of Housing and Local Government, Mr. Henry Brooke, has approved the construction of a £3m. cement works at Westbury, Wiltshire, by Associated Portland Cement Manufacturers. This is the result of the third enquiry into the matter since 1947.

Work has already started on the site on minor buildings and service roads. The scheme envisages the winning of chalk close to the White Horse. This will be carried by underground pipeline to the works in the factory in the valley below, where another large excavation will supply the clay.



The Hammersmith Flyover, which forms an important approach road to London and outlet to London Airport and the south-west, is fast approaching completion. This photograph shows a Blaw Knox PF-90 paver laying asphalt base on the approach from Cromwell Road. Electric road heating cables will be laid upon the base prior to final surfacing by the PF-90, which can traverse the cables without damaging them. Main contractors: Marples Ridgway and Partners, Ltd.; paving contractors: Limmer and Trinidad Lake Asphalt Co., Ltd.

ROADS AND THE ECONOMIC SITUATION

IN a circular to local authorities, referring to the Government's economic restrictions, the Minister of Transport says that no reduction is proposed in the programme of new road construction and major improvements.

The motorway programme over the next five years will also remain unaffected and, as announced by the Minister on August 2, the trunk road programme will be considerably accelerated in the same period.

Maintenance

The circular adds that, while proper maintenance is as important to the national road system as new construction and major improvements, highways authorities are particularly asked not to take advantage of any part of their maintenance and minor improvement allocation which threatens to be surplus by devoting it to works for which there is no immediately pressing need.

As regards the other services with which

As regards the other services with which the Minister of Transport is concerned, e.g. road passenger transport, unclassified roads, lighting of roads, and car parks, the local authorities are asked to scrutinise carefully all proposals for new expenditure. This applies to both current and capital expenditure.

As regards capital expenditure, amount of new work sanctioned during the next few months, particularly work for which an early start is proposed, will have to be materially reduced. Some schemes that are not immediately urgent will have to be postponed. When applying for loan sanction for schemes in this field, local authorities should submit a full statement of the case for the scheme and its urgency. Where it is expected that the expenditure will be spread over more than one financial year estimated figures for each year should

To facilitate forward planning, local authorities are asked wherever possible to give the Minister advance notice of schemes costing over £20,000 for which they intend to seek loan sanction as soon as a decision in principle has been reached, stating approximately when they expect stating approximately when they expect

FINANCIAL REVIEW OF CONTRACT SETTLEMENTS

At the request of a county borough, the town planning committee of the Association of Municipal Corporations have considered the question whether members should be recommended to include among conditions of contract a provision requir-ing (a) a contractor to supply to the archi-tect, for the use of the treasurer, a state-ment of account of the work done and materials supplied with such vouchers as these officers may require, and (b) that the architect's certificate shall only become operative when countersigned by the conditions of contract a provision requirtreasurer.

The committee say they have considered what was said on the question of review of contract settlements in the first report of the L.G. Manpower Committee (Cmnd. 7870) in Ministry of Housing and L.G. circular No. 2/1952 and in a detailed memorandum sent by the county borough.

They state: "In our view the question of a financial review of contract settlements should be regarded as a matter of internal administration and not one to be dealt with by the terms of a contract. We feel that contract terms could reasonably be drawn so as to give the architect time in which to consult other officers before issuing his final certificate, but that certification of the final payment must be a matter for the architect. In any event we consider the procedure for reviewing contract payments should be a matter for internal arrangement by the local authority and should not be a matter of concern to the other party to the contract." They state: "In our view the question of

LARGE STREET LIGHTING ORDER FOR A.E.I.

THE A.E.I. Lamp and Lighting Co., Ltd., have received a £40,000 contract from Harrow Borough Council to provide approximately 1,500 "Leader" 15T

Harrow Borough Council to provide approximately 1,500 "Leader" 15T aluminium street lighting columns with fluorescent lanterns for "B" class lighting. This is believed to be the largest single street lighting order ever awarded to a separate company in the United Kingdom and is the first part of a programme to light 150 miles of residential roads in Harrow during the next three years. This will eventually involve supplying 6,500 columns and lanterns at a cost of approximately £175,000.

Specially developed by A.E.I. for the

approximately £175,000.

Specially developed by A.E.I. for the installation, the lantern is designed for group "B" application and mounted at 15ft. on a Leader 15T aluminium column. Optical control is by means of anodised and electrically brightened super purity aluminium giving good control over either the two 20-watt for two 40-watt fluorescent lamps. The lantern is spigot mounted 10 degrees above horizontal and requires no bracket.

no bracket.

The castings, which are the main support of the lantern, are from aluminium support of the lattern, are from aluminium alloy and the canopy is grey perspex cemented to a clear bowl. A neoprene gasket is used to make a watertight seal. Control gear is enclosed within the lantern on a sheet steel stove enamelled gear tray where there is a terminal block for easy connection over the internal spigot cap.

VALOR INDUSTRIAL HEATER

Valor Company, Ltd., Erdington, Birmingham, have added to their range of kerosene heaters a new unit specially designed for use in warehouses and workshops. It is a free-standing, self-contained heater,

is a free-standing, self-contained heater, requiring only a simple outlet for flue gases. The heater has an output of 100,000 B.Th.U.'s an hour and consumes a minimum of 1½ pints and a maximum of 6 pints of kerosene an hour. It is automatically operated and thermostatically controlled and incorporates an Inal fuel control valve, a solenoid fuel shut-off valve, an air thermostat, and a separate thermostat to prevent over-loading.

thermostat, and a separate thermostat to prevent over-loading.

In winter the heater fan circulates warm air, and in summer it can be used as an independent air cooler. The air is circulated by a 1,400 r.p.m. electric fan or, if quieter working conditions are required, by a 900 r.p.m. fan. The output of the heater is 80,000 cu. ft. of air per hour at a temperature of 90 degrees F. with ambient temperature of 30 degrees F. This is controlled by a .4-h.p. 200/240 A.C. motor and fan. motor and fan.

The dimensions of the heater are 62in, in height, 27in, in width, and 27in, in depth. Its weight is 397lb, and the retail cost is £167 10s.

BARTREV BOARD FOR WALL LININGS

Bartrev Board Co., Ltd., 5 St. James's Place, London, S.W.I, are now producing a 9 mm. three-layer board which is available from stock in sheets from 5ft. to 12ft.

able from stock in sleets that long.

The board has a density of .650 and is designed for use where hardboard would be unsuitable such as for wall linings and floor coverings. A layer of fines on the surface of the board gives it a smooth, ready-to-paint quality. The retail price is 10½d. a sq. ft.

NORWAY ORDER YALE TRUCKS

The British Materials Handling Division of Yale and Towne, Willenhall, Staffs., have received a £25,000 order from the Fred Olsen Line, Norway, for 40 Worksaver pallet trucks. The trucks have been specially designed for use on board ships.

HYDRAULIC 3-TON MOBILE CRANE

A NEW hydraulically operated 3-ton A mobile crane unit has been announced by Tunny Cranes, Ltd., Abbey House, 2 Victoria Street, London, S.W.1.

The increased capacity of the crane, which follows the same basic design as the company's 2-ton unit, has been achieved by the incorporation of four



3-ton Tunny crane with stabilisers

stabilising outriggers. These each consist of a screw-threaded vertical steel leg, sliding out at right angles from the chassis and manually adjusted by a fitted tommy bar. Designed for use with simple wood blocks, each stabilising leg requires only a few turns of the tommy bar to be fully extended. extended.

Operating under blocked conditions Operating under blocked conditions and with a fixed jib, the crane is capable of lifting 3 tons at 7ft. radius throughout its full arc of 300 degrees. Ratings over the side and rear of the unit with a 16ft. jib range from 3 tons at 7ft. radius to 1 ton at 14ft. 9in. radius. With a 26ft. jib the range is 1½ tons at 8ft. radius to 10cwt. at 20ft.

the range is 14 tolls at our state at 20ft.

When mounted on a chassis of not less than 132in, w.b. and operating with a fixed jib, the crane ratings apply over the rear of the vehicle without resort to

The price of the crane unit, complete on Ford Thames Trader chassis, is £3.162 10s.

NEW EXPANDITE JOINTING COMPOUND

Thioflex is the name given to a new Inionex is the name given to a new jointing compound produced by Expandite, Ltd.. Chase Road, London, N.W.10. It is a two-part material based on Thiokol liquid polymer and formulated for the sealing of joints in curtain walls, bridges,

ing of joints in curtain walls, bridges, floors, etc.

Applied by trowelling or caulking gun, the material cures to a solid, rubber type compound which is chemically resistant and will withstand impact shocks. It has a tensile strength of 150lb. p.s.i. at 67 degrees F.

After mixing, Thioflex has a work life of two to four hours at 77 degrees F, and will cure to a tack free condition in 24 to 48 hours at 65 degrees F. A final cure is reached in five to 10 days.

JOHNSON DUMPER RANGE **EXTENDED**

THE addition of three new models to Their dumper range has been announced by C. H. Johnson (Machinery), Ltd., Adswood, Stockport, Ches.

Ltd., Adswood, Stockport, Ches.

The first is a 15cwt. machine, the One/15, which has a 14 cu. ft. wet level skip capacity, rear wheel drive and articulated chassis construction. Second is the One/20, a 20cwt. model with an 18 cu, ft. level skip capacity, rear wheel drive and Petter AVA.1 engine, and third is the One/27, which features front wheel drive with in-line transmission and extra heavy duty double reduction drive axle. The latter is powered by a Petter PH.1 engine and has a 27cwt. payload and a 19 cu. ft. wet level skip.

All three machines may be converted

All three machines may be converted the Trip-Skip multi-skip handling

system.

ENGINEERING AND BUILDING CENTRE FOR BIRMINGHAM

The former Masonic Temple at Broad Street, Birmingham, is being converted at a cost of £100,000 into new headquarters for the Engineering and Building Centre, Birmingham, and firms in both industries are now being invited to take exhibition space.

The new centre will have provision for The new centre will have provision to about 600 displays, and almost everything from door knobs and bath taps to tool steels and turbines will be on show in the 37,000 sq. ft. building. Thousands of booklets are being sent out to firms and organization. sations, setting out the centre's aims and functions. Space rentals at the centre will vary from £45 to £400 a year, the average being about £180.

PITCH/RESIN COATING IS CHEMICALLY RESISTANT

Exceptional chemical resistance is claimed for a new anti-corrosive coating evolved by E. and F. Richardson, Ltd., Buckingham.

Buckingham.

Known as Adcora Pervon, it is a polyurethane pitch coating which cures rapidly at all temperatures, even below freezing point, and is unaffected by high humidity during the curing period. It can be applied effectively both to blast cleaned metallic surfaces and to those prepared by less thorough methods.

pared by less thorough methods.

The makers state that ferrous surfaces protected with a 10 mil coating emerge unscathed and indistinguishable from their original appearance after immersion for six months in 20 per cent, nitric or chromic acid. Its resistance to fatty acids and alkalis is said to be equally impressive.

INCOMBUSTIBLE ACOUSTIC TILE

INCOMBUSTIBLE ACOUSTIC TILE
Armstrong Cork Co., Ltd., Carlisle Road,
London, N.W.9, are marketing an acoustical ceiling tile manufactured from incombustible material wool fibre. It is available in classic and full random patterns.
The tile, which is called the Minatone,
has good thermal insulation properties with
a C value of .62 at 70 degrees F. (equivalent K factor .39). It may be used in high
humidity areas and can be installed by
either adhesive or by most mechanical suspension systems. pension systems.

OVERHEAD GAS HEATER

A new gas radiant air heater produced by Parkinson Cowan Industrial Products. Dolphin Works, Fitzalan Street, London, S.E.11, is designed for installation in buildings where directed heat is required for medium-sized areas. Known as the Parkinson Schwank Merlin, it consumes only one-eighth of a therm of gas per hour yet has an output of 13,000 B.Th.U. per hour. hour.

The heater is constructed from anticorrosion aluminised steel and is finished in honey mottle heat resistant vitreous enamel. Weighing only 9lb., the unit is installed by single-suspension from the

CASE LOADERS AND TRACTORS U.K. Manufacturing Developments

THE first British produced Case loader was last week by Mr. W. D. Opher, wheeled handed over of Vickers - Armstrongs chairman (Onions), Ltd., to Mr. W. Muir Robb, managing director of J. I. Case Company, Ltd. The ceremony, which took place at Bilston, Staffs., was attended by directors and senior staff of both organi-

Prototypes of the loader, the W.9, have been undergoing exhaustive tests for some months and the first 20 production models are now coming off the line. Vickers are also about to go into production with the

also about to go into production with the W.12 loader together with certain optional equipment for both models.

The Case W.9, 80-h.p. model has a 1½ cu. yd. standard bucket and the 120-h.p. W.12 a 2½ cu. yd. standard bucket. The price of the W.9 with standard bucket is 55,200 and the W.12, £7,500. A description of both models appeared in The Contract Journal, March 17, 1960.

Good progress is also being made with the production of the Case crawler trac-

tors, the 800 and the 1000. This is taking place at the newly acquired Grangefield Works, at Stanningley, Leeds, and the first prototypes are about to be tested.

Co-operation

Speaking at a luncheon following the ceremony, Mr. W. Muir Robb congratulated Vickers in getting such a machine in production in such a short time—they had had the drawings less than one year and he thanked the personnel of both organisations for their great enthusiasm and congration operation.

Mr. Robb said they had been working hard in the export field and hoped to see a big increase in demand for Case machines

big increase in demand for Case machines from certain countries.

Replying, Mr. W. D. Opher expressed the hope that the first machine would be the forerunner of many more which would be a credit to their two companies. He also referred to the enthusiasm and co-operation which had enabled production to commence in such a short period of time and said the Vickers parent board felt that Onions had done an excellent job of work.



First batch of Case W.9 wheeled loaders on the assembly line

NEW LIGHTWEIGHT FOUR-STROKE BY B.S.A.

Latest addition to the range of four stroke petrol engines produced by the B.S.A. Power Unit Division, Redditch, is

B.S.A. Power Unit Division, Redditch, is a 50c.c. model weighing only 14lb. It represents a departure from normal B.S.A. practice in that it is basically a die-cast aluminium alloy unit with cast-in iron cylinder liner.

The petrol tank is mounted as part of the cowl structure and a special petrol tap inside the filler cap allows the petrol pipe to be almost totally enclosed within the cowl. A recoil starter is a standard fitting and a standard pulley for emergency starting is also available by simply undoing three screws and removing the recoil starter assembly. three screws as starter assembly.

The engine has an aluminium integral crankcase and cylinder with cast-in liner. There are separate cast-in iron valve seats. The cylinder head and crankcase end cover are also in aluminium and the crankshaft is a one-piece steel forging. All external metalwork, apart from the aluminium, is heavily rust protected and stove enamelled.

FILM OF SMITH CRANES

"Smiths Make News" is the title of a new promotion film produced for Thomas Smith and Sons (Rodley), Ltd., Rodley, near Leeds, showings of which are to be arranged at various provincial centres throughout the country. Copies are also to be distributed to overseas countries.

The film, in colour and lasting 30

The film, in colour and lasting 30 minutes, shows the range of Smith machines by following the progress on a slum redevelopment scheme in Sheffield. At each point in the story—demolition, excavation, erection—the suitable Smith model is seen at work. The commentary is spoken by Barry McQueen, and the direction and filming were by Mottershaws. Ltd., Sheffield.

NEW PLANT COMPANY

Brantley Drilling (Overseas) Co., Ltd., ave changed their name to H.L.S. (Plant), Ltd., Thornwood Common, Epping, Essex.
The directors of the new company are
Mr. W. H. Stevens, Mr. F. C. Johnson and
Miss V. G. Wright, and the secretary is
Mrs. D. Keeler. The authorised capital is £100,000 and the issued capital, £4,000.

TOWER CRANE SAFETY DEVICES

TWO separate safety warning units have been specially developed by the materials handling division of Babcock and Wilcox, Ltd., for inclusion as standard equipment on the Babcock-Weitz saddle-jib tower cranes, and for application to all Weitz tower cranes imported into Britain.

Imported into Britain.

The devices are the Simcox safe-load indicator and the Simcox constant-load limiter, and they are separate units which operate automatically in conjunction with a common visual warning, audible alarm,

and cut-out

The safe-load indicator is mounted on The safe-load indicator is mounted on the main tie-bar that supports the jib by linking it to the top of the tower. It safeguards the crane against excessive loads and/or radius. Wired in parallel is the constant-load limiter, which is embodied in one of the hoist-rope pulleys, and provides protection against excess loads on the hoist-rope, irrespective of the radius.

the hoist-rope, irrespective of the radius. After tripping of the circuits has occurred, no outward travel of the crane's saddle or raising of the load is possible, but inward travel and/or lowering of the load can still be effected by the normal controls. As soon as the excess of load or radius is removed, all circuits are restored for normal working by use of the start control.

Operation of the safe-load indicator is

Operation of the safe-load indicator is based on a continuous comparison between based on a continuous comparison between the length of the loaded tie-bar and the constant length of an unstressed operating rod. This rod is fixed to the tie-bar at one end, supported against sagging along its length, and at the other end is pivoted to the first of a series of levers that amplify the minute stretch in the tie-bar caused by a load on the crane's hook. Excessive stretch operates in sequence three adjustable micro-switches, which serve the warning and alarm signals, and the cut-out. the cut-out.

Simple in design and construction, the constant-load limiter is essentially a springconstant-load limiter is essentially a spring-mounted pulley, mounted at the junction of the tower and the jib, and designed to produce a deflection of the springs when a load is on the crane's hook. This deflection is proportional to the load and it transmitted progressively to a set of three adjustable micro-switches which are enclosed in a weather-proof box, The normal setting is for visual warning at 85 per cent. and audible alarm at 95-97 per cent. of the safe working load, and the circuit-trip is set to operate when the safe working load is exceeded by a predetermined amount. amount.

A common alarm unit, containing the warning light and alarm bell, is fitted in the crane's control cabin or other control

ALL-SUCTION LITTER MACHINE

Street litter is picked up and deposited in detachable bags by a new all-suction, pedestrian-controlled machine, which has

pedestrian-controlled machine, which has been produced by Kent Engineering and Foundry, Ltd., Maidstone, Kent.

This Kef Litter Shark is powered by a four-stroke air-cooled 3-h.p. engine, fitted with an impulse starter. A direct-drive heavy duty suction fan draws in the litter through a 30in. snout. There are no brushes or belts and lubrication is at one point only. The cost is £79 10s. ex-works.

Trade and Company News continues of page 1712. Subsequent articles include Lift Slab Method Employed on Poole Warehouse Contract (p.1715); Talking of Safety, by "Dragee" (p.1716); Increased Output of British Standards to Meet Needs of Industry (p.1717); to meet Needs of Industry (p.1718); International Construction (p.1718); Twin Temporary Footwalks on Forth Road Bridge (p.1719). For the Diary appears on page 1720.

Current **Constructional** Activities

AWARDS PROJECTS CONTRACTS

THIS editorial feature provides readers I with a comprehensive news service covering forthcoming private and public construction work. Commencing on this construction work. Commencing on this page information is given concerning future projects followed by details of tenders being invited. In the third section will be found news of tenders recommended for acceptance, tenders accepted and con-tracts awarded. Attention is also drawn to the advertisements covering contracts and appointments appearing in the front part of the Journal.

BUILDING AND DECORATING

(See also Housing Schemes)

(See also Housing Schemes)

Ampthill, Beds.—Interlas Ltd., 9 Church Street, Ampthill, have submitted to U.D.C. for approval, plans for the erection of a factory at Station Road.

Armagh.—Co. E.C. propose to erect a two-teacher primary school at Cortamlet. Estimated cost £11,000.

Aspull, Lancs.—C.C. have approved the erection of a branch library in Scot Lane, and a school clinic and child welfare centre in Haigh Road.

Atherstone, War.—North East Warwickshire Water Board are to have bills of quantities prepared for the erection of workshops, stores and garages at Atherstone Depot. Estimated cost £6,000.

Barnstaple, Devon.—R.D.C. recommended

Barnstaple, Devon.—R.D.C. recommended to approve outline application of the erection of a motel, ballroom and restaurant assumton Road, Braunton, for R. Harris and Son (Braunton Builders) Ltd., East Street,

Barnstaple, Devon.—Tenders are to be invited from selected contractors in a month's

invited from selected contractors in a month's time for the erection of a shop and office block in Queen Street, for Covenant Securities, Ltd. Architect for the scheme is Reginald H. Gallannaugh, 54 Queen Anne Street, London, W.I. Estimated cost £100,000.

Bath, Som.—Gerrard, Taylor and Partners, 4 Bridge Street, Bath, are the architects for the rebuilding of the Royal National Hospital for Rheumatic Diseases, for South Western Regional Hospital Board. Ministry authority is awaited to invite tenders.

Batley, Yorks.—West Riding Co. E.C. have approved scheme for improvements at Gregory Street Junior and Infants' School. Estimated cost £1,930.

Beverley, Yorks.—B.C. have approved piling of the Beck wall alongside Hodgsons' warehouse. Estimated cost £2,000.

Billingham, Dur.—U.D.C. recommended to approve scheme for submission to the Ministry, for a sports forum providing for swimming pool, skating rink, theatre, squash courts, cricket and indoor bowling. In addition, there are plans for a main hall. changing rooms, bar, restaurant, kitchen and shops. Estimated cost £745,050.

Blackburn, Lancs.—Civic Development Com-

shops. Estimated cost £745,050.

Blackburn, Lancs.—Civic Development Committee have approved the erection of a filling station on a site of Furthergate Congregational School for the Mobile Oil Co. Ltd., Caxton House, Wesiminster, London, S.W.I.

Boston, Lincs.—R.D.C. have deferred for 3 months scheme for conversion and improvement works of 22 houses and 14 bungalows at Craven Avenue, Kirton.

Bradford. Yorks.—City Council recom-

at Craven Avenue, Kirton.

Bradford, Yorks.—City Council recommended to apply for sanction to borrow £1,500 for provision of a field research station at Laisteridge Lane for the Bradford Institute of Technology.

City Architect to be instructed to have working drawings prepared and invite tenders for erection of new administrative offices at The Park. Estimated cost £35,000.

City Council recommended to approve scheme for adaptation of premises in John Gate into office accommodation for a section of the City Treasurer's department. Estimated cost £7,000.

Bridlington. Yorks.—Parks Committee have

cost £7,000.

Bridlington, Yorks.—Parks Committee have approved the erection of a crematorium at Easton Road. Estimated cost £54,550.

Brighton, Sussex.—B.C. recommended to approve plans and subject to Ministry approval, invite tenders from selected contractors for the erection of a home for the

blind, handicapped and infirm at Heath Hill Avenue, Bevendean, and an old peoples' home at the Linkway, Hollingdean. Estimated cost £53,000 and £59,000 respectively.

Ltd., Coalbour, bridge, propose in the area wit

£53,000 and £59,000 respectively.

Builth Wells, Brecons.—Webb Corbett,
Ltd., Coalbourn Hill Glass Works, Stourbridge, propose the establishment of a factory
in the area within the next year.

Burnley, Lancs. — Manchester Regional
Hospital Board Planning and Development
Committee have approved the provision of
a temporary prefabricated ward block to accommodate 12 beds at The Bank Hall Maternity Home at an estimated cost of £4,303.

Carlton, Notts.—Ministry have granted

Carlton, Notts. — Ministry have granted U.D.C. permission to erect a swimming baths at Burton Road.

Castle Donington, Leics. — Belton Parish Council have applied for planning permission for their new village hall.

for their new village hall.

Cheltenham, Glos.—B.C. recommended to approve, subject to conditions, plans for extension of industrial premises (9,000 sq. ft.) at Bouncers Lane, Prestbury, for M. H. Godden (Cheltenham) Ltd.; 2-storey printing works (15,128 sq. ft.) on site of Nos. 6 and 7 Chapel Street, for C. J. Young, Ltd., 8-9 Ambrose Street; erection of public house, Swindon Arms at Swindon Road, for Flower and Son, Ltd., Stratford-upon-Avon; revised plans for extension to industrial premises (8,540 sq. ft.) at Bouncers Lane, for Premiere Products, Ltd.

Claverdon, War.—Parick Council to the support of the street of the st

Claverdon, War.—Parish Council to prepare scheme for a pavilion for the recreation field. Evesham, Worcs.—R.D.C. to proceed with a scheme for the modernisation of 22 houses at Elmley Road, Ashton-under-Hill. Estimated cost £1,847.

Crieff, Perths.—Dean of Guild Court have approved the erection of three classrooms, three storerooms, a cloakroom and domestic offices at Crieff Secondary School for the E.C. Croydon, Surrey.—Ministry have approved site at Shirley Court Estate, Upper Shirley Road, for the rebuilding of Coloma Grammar School and Convent, for B.C. Estimated cost £216,000.

Dundee.—Eastern Regional Hospital Board

Dundee.—Eastern Regional Hospital Board have approved extensions to the board's head-quarters at Vernonholme. Estimated cost

E18,000.

Dundee. — Scottish Education Department have approved in principle plans for a commercial college to be erected on the site of the old St. John's School in Park Place. The scheme includes three blocks—one six-storey, one three-storey and one single-storey. Work is expected to start in 1963.

Dunoon, Argyll.—Dean of Guild Court have approved plans for a secondary school at Ardenslate for E.C. Estimated cost £517,000.

Durham.—Plans have been prepared by the County Architect for the erection of a police station with courts at Peterlee.

Edinburgh.—City Council propose to reconstruct, 98-102 West Bow. Estimated cost £34,500.

Dean of Guild Court have approved the re-

Edinburgh.—City Council propose to reconstruct, 98-102 West Bow. Estimated cost £34,500.

Dean of Guild Court have approved the redevelopment and extension of a department store at 52-58 Nicolson Street for St. Cuthberts Co-operative Association Ltd. Estimated cost £387,000.

Edinburgh.—Fairbrother Hall and Hedges, 27 Rurland Square, are the architects for the new Portobello Secondary School at Duddinston Road, for City Council.

The school will be centred on a nine-storey teaching block. Estimated cost £500,000. Work is expected to start this year.

Kinnear and Gordon, 54 Manor Place, are the architects for the multi-storey car park to be constructed at Castle Terrace Gardens for City Council. Estimated cost £350,000. Work is expected to start in November.

Dean of Guild Court have approved the erection of eight shops at the junction of St. John's Road and Manse Road, Corstorphine, for City Council. Estimated cost £96,000. Rowand Anderson, Kinimmouth and Paul, 16 Rutland Square, are the architects for a new theatre on the island site at present occupied by the Synod Hall, Usher Hall, Lyceum Theatre and Festival Offices. Estimated cost over £1m. Plans have received general approval by the corporation planning committee and the Royal Fine Art Commission for Scotland.

Ministry of Works propose to erect a telephone exchange in London Street instead of St. James' Square as originally planned.

Exeter.—City Council recommended to approve plans for the erection of two shops with storage accommodation on site between the blind social centre and Bear Street.
Falkirk, Stirlings.—Dean of Guild Court have approved the erection of a cookery room at Falkirk Technical College, Grangemouth Road, for C.C. Estimated cost £8,000.
Falmouth, Corn.—B.C. propose the erection of public conveniences at Maenporth beach.
Farnworth, Lancs.—B.C. recommended to grant planning permission for the erection of 17 lock-up garages, Church Street, for the St. John's Parochial Church Council, Church Street.

If Jock-up garages, Church Street, for the St. John's Parochial Church Council, Church Street.

Featherstone, Yorks.—U.D.C. have approved application submitted by the Longbottom Motor Co. Ltd., Wakefield Road, for erection of car showrooms and petrol pumps, subject to conditions.

Glasgow.—City Council have approved plans for a seven-storey office block on a site at the corner of Waterloo Street and Douglas Street for Argyle Securities Ltd., 24 Manor Place, Edinburgh, 3. Estimated cost £200,000.

Glasgow.—William Hollins and Co. Ltd., 25 Brook Street, London, W.1, propose to construct warehouses and a canteen and extend existing buildings at the premises of Seedhill Finishing Co. Ltd., Paisley. Estimated cost £100,000.

Glastonbury, Som.—B.C. recommended to

Finishing Co. Ltd., Paisley. Estimated cost £100,000.

Glastonbury, Som. — B.C. recommended to approve plans for new dormitory and flat wing at Edgarley Mews and extension to assembly hall and erection of classroom block at Edgarley Hall, for the Governors of Millfield School.

Grantham, Lincs. — L. H. Fewster and Partners, architects, 22 Conduit Street, London, W.l., have submitted to B.C. on behalf of City and Town Buildings, Ltd., 171 Shaftesbury Avenue, London, W.C.l., application for planning permission for the development of Watergate.

Hammersmith.—L.C.C. approved plans for the erection of a new day special school for educationally sub-normal boys and girls at Banim Street. Estimated cost £105,930.

Hammersmith.—L.C.C. planning permission is being sought for the erection of showrooms and warehouse at the King's Theatre Montagu Evans and Son, 11 Kingsway, London, W.C.l., are the architects for the scheme.

and warehouse at the kings Ineatre.

Montagu Evans and Son, 11 Kingsway, London, W.C.1, are the architects for the scheme.

Hartley Wintney, Hants.—R.D.C. have deferred schemes for erection of 20 garages at Weir Road and improvement of 41 houses at Hook, North Warnborough and Yateley. Estimated cost £2,000 and £27,163 respectively, proceed with improvement of 6 houses at Bramshill.

Haverfordwest, Pembs.—C.C. have prepared preliminary plans for the erection of a new boys' grammar school at south side 1 Portfield fronting Scarrowscant Lane during 1962-63. Estimated cost £148.000.

Hawick, Roxburghs.—Dean of Guild Countave approved alterations and extensions to King's Hotel, Bridge Street for the Proprietors. Estimated cost £15,000.

Hertfordshire.—Barnet and East Barnet U.D.C.s are to prepare a joint scheme with draft estimates for an indoor swimming pool at Barnet playing fields.

Hexham.—U.D.C. Surveyor has prepared a scheme for the erection of shops on the Priestlands Estate, and planning approval is awaited.

Hinckley, Leics.—Housing Committee have deferred for 6 months plans for 6 shops and maisonnettes at Atkins Way, Sketchley estate.

Hornsey, Middx.—B.C. recommended that the preparation of bills of quantities for the new central library, scheduled for November next, be postponed for six months; building proposals for the Muswell Hill sports ground be postponed for one year; and the proposals with regard to the indoor swimming pool and park walk be postponed indefinitely.

Houghton-le-Spring, Dur.—Isaac Berriman, Ltd., Woodlands Joinery Works, Fence Houses, propose shops and supermarket at Chester Road, Shiney Row.

Hull.—British Transport Commission are considering plans for the screening of the three-quarter mile length of Hull Fish Market Estimated cost £14,000.

Inverness.—Covell and Mathews, 34 Sackville Street, London, W.l., are the architects for a redevelopment scheme involving properities on the North side of Bridge Street.

Inswich, Suffolk.—E.C. to proceed with theme for remodelling Westbourne Secondary chool for Boys. Jee of Wight.—Planning Committee have

School for Boys.

Isle of Wight. — Planning Committee have approved, subject to conditions, application by Warner's Holiday Camp Ltd., 61 West Lane, Hayling Island, to develop the camp site at Woodside, Wootton as a holiday camp.

Keighley, Yorks. — Parks and Cemeteries Committee have approved a sketch plan for extensions to cafe and public conveniences at Cliffe Castle. Estimated cost £5,000.

Kirkealdy, Fifes. — Dean of Guild Court have approved the following for C.C.: A new library at Kirkcaldy High School, work is expected to start soon; erection of a primary school next to Torbain Infant School, work is expected to start soon; erection of a primary seption of the start soon; erection of a primary seption. Company of the start soon; erection of a primary school next to Torbain Infant School, work is expected to start soon; erection of a primary school next to Torbain Infant School, work is expected to start soon; erection of a fifty of the start soon; erection of a fifty of

Liverpool.

Kirriemuir, Angus.—B.C. have approved plans for improvements at the Roods-Whiteside Junction including alterations to houses. Estimated cost £3,200.

Whiteside Junction including alterations to houses. Estimated cost £3,200.

Leeds.—City Architect to be asked to prepare revised plans for the erection of the new wholesale meat market abattoir off Pontefract Lane.

Leicester.—City Council recommended to approve, subject to conditions, the sale of land at junction of Northampton Street and St. George Street to Grosvenor House Hotels (Park Lane) Ltd., for the erection of a 210-room hotel with 10 shops, 20-storey office block and underground garage. Architects for the project are R. D. Russell and Partners, 28 Little Russell Street, London, W.C.1. Estimated cost £2½m.

Letchworth, Herts.—Peter Bosanquet, 60 St. John Street, Oxford is the architect for the erection of the new church of St. George at Norton. The church is to have a 120 feet reinforced concrete spire. Estimated cost £40,000.

Limerick. Eire.—City Council are to con-

Norton. The church is to have a 120 feet reinforced concrete spire. Estimated cost £40,000.

Limerick, Eire.—City Council are to consider a scheme for the erection of a new City Hall. Estimated cost £200,000.

Liverpool.—Town Centre Securities, Ltd., Conway Road, Harehills Lane, Leeds, propose development of site facing Central Station. The proposal is to form a two-level shopping precinct with licensed premises, a restaurant and bank, topped by a two-storey overhead car park approached by a ramp with accommodation for 300 vehicles.

London.—Enthoven and Mock, 4 Raymond Buildings, Gray's Inn, London, W.C.I, have prepared plans for improvements and alterations at City of London College. Electra House, Moorgate. Estimated cost £109,904.

London.—L.C.C. planning permission is being sought for the redevelopment of site bounded by Tavistock Place, Hunter Street, Brunswick Square, Bernard Street and Herbrand Street, etc., W.C.I., with shops, offices and residential accommodation. C. Harman Hunt, 3 Balfour Place, London, W.I. is the surveyor for the scheme.

Lytham St. Annes, Lancs.—Ministry have approved B.C.'s proposals for modernisation of refuse handling plant, subject to conditions.

Manchester.—Town Planning Committee have approved the erection of shop and office block on a site near the city centre bounded by New Market Lane, Norfolk Street, Sussex Street and Pall Mall, for the Scottish Insurance Corporation Ltd., 115 George Street, Edinburgh, 2.

E.C. to build College of Commerce on a site on the coverar of Sceleville Street.

Street and Pau Man, and Street and Pau Man, and Pau Man, and Corporation Ltd., 115 George Street, Edinburgh, 2.

E.C. to build College of Commerce on a site on the corner of Sackville Street. Revised scheme estimated to cost £650,000.

Mansfield, Notts.—B.C. recommended to approve site on land near the sewage disposal works in Bath Lane for the provision of a new destructor plant. Estimated cost £190,000: to prepare scheme for the provision of new dressing accommodation at Bull Farm recreation ground.

Verke.—E.C. to spend

dressing accommodation as the first stage, costing £19,000, will be carried first stage, costing £19,000, will be carried

Ine first stage, costing £19,000, will be carried out next year.

Nantwich, Ches. — Manchester Regional Hospital Board Buildings and Works Committee have approved in principle provision of occupational therapy unit and provision of occupational therapy unit and provision of occupational therapy unit and provision of bed lift and cloakroom accommodation in "C" block (maternity) at Barony Hospital. Working drawings and bills of quantities to be prepared with a view to work being undertaken during 1961-62 and 1962-63 respectively.

Newburn, Northumb. — Additions are proposed to West Denton Community Centre. and the work will be started within a few weeks. No contracts have been let. The architects are P. L. Browne, Son and Harding, Pearl Buildings, Northumberland Street, Newcastle upon Tyne. — City Council recommended to purchase land in the Scotswood Road area which will be laid out as a trading estate. Firms deciding to take sites on the estate will build their own factories.

Newcastle upon Tyne.—Plans are being prepared by C. Solomon, 30 St. Mary's Place, Newcastle upon Tyne for a warehouse at Stoddart Street and Bermondsey Street, for J. Bernet and for bakery extensions at Chillingham Road, for R. Mannes and Son, Ltd; plans are being prepared by Spence and Price, 26 St. Mary's Place, Newcastle for cadet force headquarters at the Royal Grammar School Eskdale Terrace, Newcastle; additions are proposed to nursery school at the Northern Counties School for the Deaf, Great North Road, Newcastle. The architect is C. S. Errington, 46 Grainger Street, Newcastle upon Tyne.

Tyne. Newmarket, Cambs.—R.D.C. recommended to acquire a site and obtain tenders for the construction of public conveniences at Ford-

construction of public conveniences at Pola-ham.

North Shields, Northumb,—It is proposed to remodel St. Joseph's R.C. Primary School, but the project is still only in the planning stage. The architect is David Brown, 10 Lambton Road, Jesmond, Newcastle upon

Tyne.

Oldham, Lanes. — Working drawings and bills of quantities are being prepared for provision of an operating theatre suite and central sterile supplies department at Oldham and District General Hospital, for Manchester Regional Hospital Board.

Ormskirk, Lanes. — Gilling Dod and Partners are the architects and Eric Thornley and Partners the quantity surveyors, both of Cunard Buildings, Liverpool, 3, for conversion of the Kings Arms Hotel in Moor Street, into a supermarket or shopping centre for the Country and New Towns Properties Co., Ltd. Working drawings prepared. Estimated cost £20,000.

Ormskirk, Lanes.—Co. E.C. have approved.

Ormskirk, Lancs.—Co. E.C. have approved first phase of a scheme to adapt and extend the Ormskirk Grammar School, estimated cost £143,000, and first phase of the adaptation of the County Secondary School, Wigan Road, £87,375.

Ossett, Yorks.—B.C. have approved plans conditionally for the erection of a new Methodist Church and School at Wesley Street, for Trustees of the Wesley Street Methodist Church.

Methodist Church.

Portsmouth. — City Council have approved planning application by Brickwoods Ltd., P.O.

Box No. 8, The Portsmouth Brewery, for the erection of licensed premises on the Admiralty Tavern site, Spring Street, Landport.

Port Talbot, Glam. — B.C. have approved in principle plans prepared by John Morgan Harries, architect, 40 Caroline Street, Bridgend, for the development of Aberavon Beach to include multi-storey flats, a series of fountains, pools and cascades to form an effective Japanese-type water garden, parking accommodation for 4,000 cars along the length of the promenade, a museum and aquarium block, a theatre and civic centre.

Rainford, Lancs.—Co. E.C. have approved

aquarium block, a theatre and civic centre.

Rainford, Lancs.—Co. E.C. have approved amended scheme for improvements and extensions at Crank Hill C.E. School.

Rawmarsh, Yorks.—U.D.C. have approved in principle the siting of 26 cantilever type bus shelters in the district. Estimated cost £4,200.

St. Albans, Herts.—Ronald Lyon (Estates) Ltd., Auckland House, New Zealand Avenue, Walton-on-Thames, Surrey have leased a site at Butterwick Wood, which lies off the Hatfield Road, near Smallford, for development as an industrial estate.

Sheffield.—Contractors to be appointed

as an industrial estate.

Sheffield.—Contractors to be appointed about the end of October for the erection of a modern administration block on a site adjoining their factory in Rutland Road for Stanley Works (G.B.) Ltd., Colin Hadfield, Mazda Buildings, Campo Lane, Sheffield, 1, is the architect. Estimated cost £180,000.

the architect. Estimated cost £180,000.

Sheffield.—Marsh and Woolf, 3 Old Barrack Yard, London, S.W.1, are the architects and DuBosky and Partners, 28 Berkeley Square, London, W.1, the quantity surveyors for redevelopment scheme on a seven acre site in the middle of the City extending into the Sheaf Valley, for the Estates Property Investment Co. Estimated cost £5m.

Shipley, Yorks.—Husband and Co., 383 Glossop Road, Sheffield, 10, are the consulting engineers for erection of new premises at Dockfield, for the Metal Box Co., Ltd.

Shrewsbury, Salop. — Public Health Committee to proceed wth scheme for the constructon of underground toilets at Butcher

Row.

Southwark.—L.C.C. planning permission is being sought for the erection of a cinema with offices over in a twelve-storey block at The Trocadero, Elephant and Castle. T. P. Bennett and Son, 43 Bloomsbury Square, London, W.C.l., are the architects for the scheme.

Spennymoor, Dur.—A scheme is being prepared for the erection of R.C. Church, Presbytery and hall at Whitworth Terrace. The architect is D. Brown, 10 Lambton Road, Jesmond, Newcastle upon Tyne.

Stepney.—L.C.C. planning permission is being sought for the general redevelopment of

the London Hospital area. T. P. Bennett and Son, 43 Bloomsbury Square, London, W.C.1, are the architects for the scheme.

Stockton-on-Tees, Dur.—E.C. have approved plans for submission to the Durham Co. E.C. for a youth centre at the new Hardwick Secondary Modern School. Estimated cost £19.300

for a youth center of the secondary Modern School. Estimated cost £19,300.

Stockton-on-Tees, Dur.—Hullah and Co., Grey Street, propose workshop and offices at Buxton Street, and plans by Trotter and Miller, 134 High Street, Stockton, have been approved.

Tasker and Partners, 25 New Bridge Street, Newcastle upon Tyne are the architects for shops and maisonnettes on the Hardwick Estate, for Broughs, Ltd., Oxford Street, Newcastle upon Tyne.

Sutton and Cheam, Surrey.—B.C. recommended to approve, subject to conditions, outline application for the extension of garage premises incorporating car parking area and offices, etc., at 309-311 High Street, Sutton.

Morthward.—North Shields

for Pheonix Motor Co. (Surrey) Ltd., 315
High Street, Sutton.

Tynemouth, Northumb.—North Shields
Co-operative Society, Ltd., Camden Street,
North Shields propose developing shopping
site at Waterville Road. Outline plans have
been prepared by William Stockdale, 73
Howard Street, North Shields.

M. J. Liddell and Sons, 36 Great North
Road, Newcastle upon Tyne ae seeking permission to use eight acres of land at New
York Road, North Shields, for industrial
purposes.

purposes.

Walsall, Staffs.—B.C. recommended to approve revised plans for the provision of a lecture hall at the rear of the Civil Defence Headquarters, estimated cost £7,600; prepare for submission to Ministry in due course, layout sketch plans for the erection of a further home for aged persons at Lower Farm Estate.

Walthamstow, Essex.—B.C. recommended to

Mathamstove, Essex.—B.C. recommended to approve plans for extensions and adaptations at Marsh Street Youth Centre; approve plans and appoint F. G. Cox, 18 Broomhill Road, Woodford Green, Essex as quantity surveyor and A. H. Barker and Partners, 2/8 Victoria Street, London S. W.I as consulting engineers for the Brookfield new school for handicapped children.

wandsworth.—L.C.C. approved plans for the erection of new buildings and adaptations at North House, a boarding special school for the blind, estimated cost £175,000; agreed to include provisonally in the 1963-64 building programme for further education a second hall of residence for Battersea College of Technology at Courtland Grove.

Wandsworth.—L.C.C. planning permission is being sought for the erection of a rectory, hostel, houses, flats and garages at St. Nicholas Rectory, Rectory Lane. E. F. Starling, 25 St. Leonards Terrace, London, S.W.3, is the architect for the scheme.

Ware, Herts.—U.D.C. have postponed temchildren. Wandsworth. -

Ware, Herts.—U.D.C. have postponed tem-porarily a £25,000 scheme for rebuilding the dressing room accommodation and providing a small public hall for winter use at Ware

oressing room accommodation and providing a small public hall for winter use at Ware swimming pool.

Warrington, Lancs.—B.C. recommended to seek M.E. approval for a new one-stream C. of E. infant and junior school on a site in Chester Road.

Warrington, Lancs.—J. W. Beaumont and Sons, 51 Mosley Steet, Manchester, 2, are the architects for the erection of a factory at Grappenhall, for Metro-Cutanit Ltd.

Washington, Dur.—Plans are being prepared by Powell Duffryn, Ltd., Proctor House, The Side, Newcastle upon Tyne for proposed laboratory and offices at Station Road.

Wellington, Som.—Home Office have approved the erection of a single-bay fire station at North Street for Co. Fire Brigade Committee. Estimated cost £6,000.

Wells, Som.—City Council recommended to approve plans for the proposed new County Grammar School.

Whickham, Dur.—U.D.C. to seek Govern-

Whickham, Dur.—U.D.C. to seek Government permission to go ahead with the erection of swimming baths at Dunston. The Council's architects are Fennell and Baddiley, Bridge End Chambers, Chester-le-Street, Co. Durham.

bridge End Chambers, Chester-te-Street, Co. Durham.

Whitwell, Derbys.—Parish Council are to proceed with scheme for the erection of a parish hall near the old one. Estimated cost £1.500.

Whitley Bay, Northumb.—B.C. is seeking permission to spend another £30,000 on coast defence works.

Willesden Middx.—B.C. recommended to appoint A. L. Smith, 124 Victoria Street, London, S.W.1, as quantity surveyor in connection with the provision of seven lock-up shops with maisonnettes above in Peel Road to further the South Kilburn redevelopment scheme.

scheme.

B.C. recommended to approve, subject to conditions, plans for the erection of a three-storeyed office block and single-storeyed extension to factory at 70 Dudden Hill Lane, for Associated Automation, Ltd., alterations to factory and erection of two-storeyed office

block at Cleopatra Works, Whitby Avenue, for indestructible Paint Co. Ltd., 6 Chesterfield Gardens, London, W.1.

Woolwich.— L.C.C. planning permission is being sought for the erection of a hostel for overseas students at St. Margaret's Vicarage, Vicarage Road. E. F. Starling, 25 St. Leonards Terrace, London, S.W.3, is the architect for the scheme.

Worcester.—E.C. have deferred schemes for sanitary improvements at Rainbow Hill Junior Mixed and Infants' School, £2,000; work on the new College of Further Education, £4,000; extension of Bilford-road playing field, £2,000. Yeovil, Som.—Plans have been prepared and final sanction is awaited from Ministry before tenders are sought for the proposed new hospital to be erected in two phases on site bounded by Kingston and Higher Kingston for South Western Regional Hospital Board.

York.—Kitson, Parish Ledeard and Pyman

York.—Kitson, Parish, Ledgard and Pyman, Lloyds Bank Chambers, Vicar Lane, Leeds, I, are the architects, Ernest R. Babbs and Sons, 187 Piccadilly, London, W.I, the quantity surveyors and Ove Arup and Partners, 13 Fitzroy Street, London, W.I, and Pashler and Partners, 73 Southampton Row, London, W.C.I, consulting engineers for the erection of an eight-storey office block in Rougier Street, for the Yorkshire Insurance Co. Ltd. Estimated cost £1m.

ELECTRICAL

Hinckley, Leics.—Highways Committee to apply to M.T. for permission to install traffic signals at junction of Stockwell Head and The

GAS AND WATER SUPPLY

GAS AND WATER SUPPLY

Brighton, Sussex.—B.C. recommended, subject to Ministry approval, to prepare schemes and invite tenders for the construction of a pumping station at Sompting, booster scheme with reservoir at Lancing and extension of high service trunk mains, estimated cost £33,550, £3,000 and £25,000 respectively; to appoint Mouchel and Partners, consulting engineers, Southbank House, Black Prince Road, London, S.E.11, to prepare scheme and invite tenders for the extension of Warren Reservoir, £35,500.

Irchester, Northants,—Higham Ferrers and

Reservoir, £58,500.

Irchester, Northants.—Higham Ferrers and Rushden Water Board have approved the laying of a water main to serve 56 houses off Farndish Road.

Leicester.—City Council recommended to approve the construction of a new service reservoir and booster station at Waltham, together with an extensive main-laying scheme to bring improved supplies of water to the villages of Sproxton, Saltby, Stathern, Plungar, Redmile, Bottesford, Harby, Hose and Long Clawson. Estimated cost £38,000 and £51,000 respectively.

Long Clawson. Estimated cost £38,000 and £51,000 respectively.

St. Ives, Hunts. — Chesterton and St. Ives Joint Water Board have approved in principle scheme for tapping a water trunk main running from Bluntisham to Woodhurst at Pidley. running a link main across country to St. Estimated cost £25,000.

HARBOURS, PIERS AND SEA DEFENCE WORKS

-Works Committee propose a Edinburgh.-

Edinburgh.—Works Committee propose a protection wall at Portobello Promenade. Estimated cost £3.000.

Findochty, Banfis.—B.C. propose a coast protection scheme at Sandy Creek and Sterlochy Street. Estimated cost £10,000. Work is expected to start next March.

Norfolk.—Ministry of Agriculture have approved scheme for sea defence works at Heacham and Snettisham for the Great Ouse River Board. Estimated cost £9,650.

HEATING AND VENTILATING

Lancashire.—Ministry have approved working drawings and bills of quantities for second phase of scheme to provide boilerhouse and plant to serve Leigh Infirmary and the Atherleigh Hospital, for Manchester Regional Hospital Board.

HOUSING SCHEMES

Abram, Lancs.—U.D.C. Divisional Planning Officer has approved plans for the erection of 38 dwellings at Bickershaw Lane.

Annan, Dumfries.—B.C. have approved plans for 22 single persons and old age pensioners houses at Butts Street,

Bebington, Ches.—B.C. recommended to purchase land in Marquis Street and New Ferry Road, New Ferry, for the building of two blocks of three-storey flats and four-storey maisonnettes.

maisonnettes.

Beccles, Suffolk.—B.C. recommended to approve amended sketch plans prepared by Meen and Collis, archi.ects, Station Road, Beccles. for the conversion of the upper floors of the White Lion Hotel into five flats.

Blyth, Suffolk.—R.D.C. has postponed indefinitely scheme for 8 old people's dwellings at Carlton Road, Kelsale.

Brighton, Sussex. — B.C. recommended to approve scheme and invite tenders from selected contractors for the erection of old peoples' flats in the western corner of Woolards Playing Fields at North Moulsecomb. Estimated cost £17,500.

Town Planning Committee have approved outline plans for the erection of 48 flats and 48 garages at Withdean Farm. London Road, for Harper Engineering and Electronics, Ltd., 98 Park Lane, London, W.1; 36 units of accommodation and 28 garages in a four-storey block at the junction of Windlesham Road and Windlesham Avenue, for R. Green Properties, Ltd., 2 Duke Street, Brighton, 1; 32 flats and 32 garages in three blocks at Greenleaves, 185a Presson Road, for Dutton, Briant and Watts, 22-24 Marlborough Place, Brighton, 1

and Watts, 22-24 Mariouseg...
Brighton, 1.

Burnley, Lancs.—B.C. Plans Sub-committee have approved revised scheme submitted by William Leech (Builders), Ltd., 7-8 St. James Street Newcastle upon Tyne, 1, for residential development on land between Manchester Road and Cog Lane providing for almost 300 houses.

Noad and Cog Lane providing for aimos: Sociouses.

Cemaes, Pembs.—R.D.C. propose the erection of six houses at Newport, six at Cilgerran and four at St. Dogmals.

Coleraine, Londonderry.—Crofton Dalzell, Northern Bank Buildings, Coleraine, is the architect for 114 dwellings proposed for the Killowen Street area, for B.C.

Daventry, Northants.—B.C. recommended to erect 50 houses instead of 100 at Braunston Road estate for British Timken, Ltd., employees.

Chowns Ltd., 63 Edinburgh Road, North-

Chowns Ltd., 63 Edinburgh Road, North-hampton, have purchased a site near their present housing estate at the Inlands and plan the erection of 230 dwellings. Doncaster, Yorks.— Town Planning and Estates Committee have approved plans for erection of 45 terraced houses in Burnett's Field, Urban Road, Hexthorpe, for J. Dixon (Doncaster). Ltd.

erection of 45 terraced houses in Burnett's Field. Urban Road, Hexthorpe, for J. Dixon (Doncaster), Ltd.

Dundee. — Housing Committee have approved plans for 103 houses on a site of about 5 acres, south of the Forthill scheme.

Edinburgh. — Housing Committee have approved plans for 600 permanent houses in place of prefabs at Southhouse, near Captain's Road for James Miller and Partners, Ltd., 18 George Street, Edinburgh. 2.

Glendale, Northumb.—R.D.C. are planning the erection of 20 houses at Golden Square, Wooler. It is expected that the necessary roadworks will be carried out on behalf of the Council, by C.C.

Hartley Wintney, Hants.—R.D.C. to proceed with scheme for the erection of 20 houses at Manor Park, Yateley.

Hinckley, Leics.— Housing Committee to invite tenders for the erection of 8 flats at John Nichols Street; construct 50 dwellings during 1962; defer scheme for replacement of prefabricated houses.

invite tenders for the erection of 8 flats at John Nichols Street; construct 50 dwellings during 1962; defer scheme for replacement of prefabricated houses.

Houghton-le-Spring, Dur.—U.D.C. to build during 1962, 114 dwellings to plans by the Surveyor: I. Berriman, L.d., Woodlands Joinery Works, Fence Houses, proposes housing developments at Fence Houses Station, and three- or five-storey flats at Sunderland Street; Charles Bell Sons and Barnes, 4 Green Terrace, Sunderland, have submitted proposals, on behalf of the Rev. O. N. Gwilliam, to the planning authorities for housing developments at Glebe Farm; Lafferty and McPartlin, Fatfield, Washington, are to erect 15 houses at Dene Bungalow; U.D.C. have received Ministry permission to erect four houses with roads and sewers, by direct labour at South Street, Newbottle.

Huntingdonshire.—Standing, Joint Committee propose the eection of 9 police houses during 1962-63.

Leicester.—City Council recommended to approve the sale of land at Stokes Drive, Groby Road to Jelson, L.d., 340 Loughborough Road for housing purposes.

Londonderty.—Ministry have approved the redevelopment scheme for the Rossville Street/Lecky Road area for Housing Trust.

Loughborough, Leics.—B.C. preparing plans for 29 flats on part of the Old Rectory site.

Nailsworth, Glos.—U.D.C. propose the erection of 12 houses during 1962.

Newcastle upon Tyne.—City Planning Committee have approved in principle a scheme for the erection of of three blocks of luxury flats overlooking Jesmond Dene for John T. Bell and Sons, Market Street Chambers, Newcastle upon Tyne. The scheme provides for between 270 and 300 dwellings. The blocks will be six, eight and 18 storeys high.

M. Grady, Ltd., 74 Broadwood Road, Newcastle are to erect seven bungalows at Silver Lonnen.

Penrith, Cumb.—Border Engineering Contractors, Ltd., 125 Queen Street, Whitehaven,

Lonnen.

Penrith, Cumb.—Border Engineering Contractors. Ltd., 125 Queen Street, Whitehaven, are planning the erection of 95 houses on the Wetheriggs Estate.

Spenborough, Yorks.—B.C. recommended to approve the erection of two, three and five storey flats on the Brooklyn Street site at Moreannia.

Sutton and Cheam, Surrey.— B.C. recommended to approve, subject to conditions, plans submitted by M. I. Gleeson (Contractors) Ltd., Haredon House, London Road, North Cheam, for the erection of one threstorey block of seven flats with 10 maisonnettes over at 20-22 Christchurch Park and submit to the North Surrey area Sub-Committee for approval, subject to conditions, outline application for the retention of hotel and erection of eight three-storey blocks of 28 houses with garages, etc., at 17-25 Christchurch Park; scheme for one three-storey block of 27 flats with 27 garages at 33-59 Grange Road, Sutton, for Chalford Property Co. Ltd., 145 London Road, Kingston-upon-Thames; scheme for the demolition of property at "Southfields", 216 Sutton Common Road, Sutton, and erection on size of a four-storey block of 24 flats and 21 garages, for Woodgavil Properties Ltd., 283 Malden Road, Cheam. Sutton and Cheam, Surrey. -B.C. recom-

Walthamstow, Essex.—B.C. recommended to approve scheme for the erection of six one bedroom and six two-bedroom flats in three s.oreys and 12 garages at 69/71 Handsworth -B.C. recommended to

Wisbech, I. of E.—B.C. propose the erection of the following during 1962: Walton Road Waterlees Road area—53 housing units; Sefton Avenue ex.ension—32; George Street area redevelopment—27, and Tinkers Drove (England's land)—14.

PLAYING FIELDS, PARKS, ETC.

Ashton-under-Lyne, Lancs.—Co. E.C. have approved in principle scheme for laying out land for playing fields for Ashton Grammar School. Estimated cost £4,100.

Edmonton, Middx.—B.C. recommended to prepare scheme for the layout of land at rear of Wilbury Way (part) and Latymer Road (part) for open space purposes.

Glastonbury, Som.—B.C. recommended to approve the provision of a public playing field a. B.C. recommended to approve plans for an additional playing field at St. Dunstan's Secondary School, for C.C. Hackney.—L.C.C. approved the laying out of two sites totalling about 2.6 acres as extensions to London Fields. Estimated cost £13,500.

Walthamstow, Essex.—B.C. recommended to submit to C.C. for grant aid, scheme for the reinstatemen; of recreational facilities at Highams estate. Estimated cost £25,000.

RIVER AND FLOOD PREVENTION WORKS

Somerset.—River Board are to submit to Ministry for approval, flood relief scheme for Porlock. Estimated cost £156,700.

ROADS, BRIDGES AND SITE WORKS

ROADS, BRIDGES AND SITE WORKS

Ballymena, Antrim.—R.D.C. propose an unemployment relief scheme for the winter. Estimated cost £20,000.

Cheltenham, Glos.—B.C. recommended to approve plans for making-up Church Road. Chad Road, Fairmount Road and Westbourne Drive. Estimated cost £10,382, £4,899, £2,908 and £2,465 respectively.

Chester.—City Council recommended to prepare plans for the making-up of the Queen's Park group of streets.

Coleraine, Londonderry.— R.D.C. propose unemployment relief work during the winter. Estimated cost £25,000.

Darlington, Dur.—M.T. to make a grant of £17,100 towards the cost of straightening the "S" bend on the West Auckland Road for the B.C.

Edmonton, Middx.—B.C. recommended to

E17,100 towards the cost of straightening the "S" bend on the West Auckland Road for the B.C.

Edmonton, Middx. — B.C. recommended to invite tenders for the resurfacing of seven concrete and 15 macadam roads.

Exeter. — City Council recommended to approve the construction of a service road from Mary Arches Street to warehouse adjoining the mint at rear of 162/3 Fore Street. Estimated cost £2,937.

Goole, Yorks. — West Riding C.C. have approved the replacement of the antiquated Dutch River bridge by a new swing bridge with an 18ft. road and two 6ft. footpaths. Estimated cost £150,000.

Houghton-le-Spring, Dur. — U.D.C. seeking loan sanction for £10,050 for the first stage of the proposed Blind Lane Road improvement scheme.

Leicester.—City Council recommended to approve the construction of one 10-ft carriageway and one 9-ft. footpath of the Outer Ring Road between Hinckley Road and Scudamore Road, together with the widening of Hinckley Road on the south side by 6-for a distance of 100 yards of both sides of is junction with the Outer Ring Road. Estimated cost £49,000.

Lytham St. Annes, Lancs.—B.C. to invite tenders in due course for the making-up of St.

mated cost £49,000.

Lytham St. Annes, Lancs.—B.C. to invite tenders in due course for the making-up of St. Andrew's Road South (part of) and Back Knowles Road North. Estimated cost £5,2% and £1,310 respectively.

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Mansfield, Notts.—B.C. recommended to approve the provision of new entrance gates and extenson of the existing roadway at Lawn Cemetery. Estimated cost £1,250.

St. Helens, Lancs.—B.C. preparing plans and tenders to be invited shortly for construction of a subway beneath the East Lancashire Road.

Tipton, Staffs.—B.C. recommended to prepare plans for making-up of Park Terrace, Victoria Terrace and Castle Terrace.

Walsall, Staffs.—B.C. recommended to approve plans for the making-up of Thelma Street.

Street.
Walthamstow, Essex.—B.C. recommended to approve scheme for the widening of Forest Road from Lloyd Park to Holmes Avenue.

SEWERAGE, SEWAGE AND REFUSE DISPOSAL

Bedworth, War. — Engineer and Surveyor to prepare scheme for minimum improvements at the sewage works.

Cowes, I. of W. — U.D.C. have deferred scheme for the diversion and re-laying of foul sewer. Woodvale, Gurnard.

Croft, Yorks.—Revised plans are to be prepared by the R.D.C. for the proposed Dalton sewerage scheme. At present, the work is estimated to cost £15.600.

Farnham, Surrey.—U.D.C. to prepare reports on the Hale and Bourne foul sewage system: have approved the provision of a relief foul sewer for Monkton Lane to the sewage works and from Coopers Corner.

Honiton, Devon. — B.C. have submitted to Ministry for approval revised layout plans of the proposed new sewerage disposal works. Estimated cost £120.000.

Hadleigh, Suffolk.—Ministry are prepared to consider a sewerage scheme designed for a future population of 7,500 but omitting units not immediately required for U.D.C.

Hinckley, Leics. — U.D.C. recommended to defer un:il 1962/63 scheme for extension to the Mill Lane sewage works. Estimated cost £33,000.

Ince-in-Makerfield, Lancs. — U.D.C. to prepare and survey of the ministry plans to the Ministry and apply for

£33,000. Ince-in-Makerfield, Lancs. — U.D.C. to submit plans to the Ministry and apply for sanction to borrow £104,419 for renewal and enlargement of the sewerage system for

and enlargement of the sewerage system for the district,

Montgomery. — B.C. have submitted to Ministry for grant aid sewerage scheme for the Borough. Estimated cost £49,000.

Newmarket, Cambs.—R.D.C. recommended to proceed with the Dullingham sewerage scheme and preliminary preparations for the Swaffham Bulbeck. Swaffham Prior and Reach and Chevely Park schemes.

Orrell, Lancs. — U.D.C. to apply for sanction to borrow £960 for sinking trial holes for locating and inspecting existing sewers for the major sewerage scheme.

Wisbech, I of E. — B.C. recommended to approve in principle oudline scheme for the drainage of surface water from Tinkers Drove/Waterlees Road estate into the drain within the area of the West of Ouse Drainage Board; prepare as soon as possible, sewerage scheme for areas D (south), E and F.

STREET LIGHTING

Exeter.—City Council recommended to submit to Minstry for grant aid schemes for the provision of improved lighting from Glasshouse Lane to Old Rydon Lane and in Hill Barton Road. Estimated cost £2,169 and £2,700 respectively.

Ulvertson, Lancs.—U.D.C. recommended in angrove street lighting scheme. Estimated

to approve street lighting scheme. Estimated cost £4,000.

wistaston, Ches.—Parish Council are to pro-ceed with scheme for the provision of im-proved street lighting for the main Crewe-Nantwich road through the parish and for the secondary roads. Estimated cost £3,278.

CONTRACTS

Full details of the Contracts marked *will be found in our Advertisement Columns.

BUILDING AND DECORATING (See also Housing Schemes)

(See also Housing Schemes)

Andover, Hants.—Erection of a block of four garages and site works at Clarendon Avenue, for B.C. Documents from the Borough Surveyor, Municipal Offices, Beech Hurst, Andover. Tenders by October 16.

Ashton-under-Lyne, Lancs.—Construction of additional accommodation at 73 Crowhill Road, for B.C. Documents from the Borough Surveyor, Municipal Offices, Ashton-under-Lyne, Tenders by October 17.

Barnsley, Yorks.—Conversion of 99 waste water closets into water closets and the provision of 61 new water closets in private properties for B.C.

Documents from the Borough Engineer, Town Hall, Barnsley, Deposit £2 2s. Tenders by Oct. 27.

Belfast.—External painting tender serial 920, of certain hospital buildings, for the Forster Green Hospital Management Committee, Fortbreda, Belfast 8, Documents from G. E. Taylor,

Green Hospital Management Committee, Fortbreda, Belfast & Documents from G. E. Taylor, secretary. Tenders by October 16.

Belfast.—Supply and fixing of metal windows at proposed College of Art, York Street, for City Council. Documents from City Architect's Department, 40 Academy Street, Belfast 1. Tenders by November 2.

Belfast.—Structural steelwork for proposed new pavilion at Deramore Park, Belfast, for the Collegians Club. Documents from Smyth and Cowser, 31 College Gardens, Belfast, 9. Deposit £3 3s. Tenders by Oct. 10.

Belfast.—Erection of new shop and office, etc., block at Rosemary Street (building contractors with experience in reinforced concrete construction), Documents from George McNeill, quantity surveyor, 29 Wellington Place, Belfast 1. Deposit £10 10s. Tenders by October 23.

*Berkhamsted, Herts.—Contracts for work

*Berkhamsted, Herts.—Contracts for work to £3,000 in value, for U.D.C. Apply by

Breconshire.—Erection of a new clinic Cefn Coed, near Merthyr Tydfil, Glam., C.C. Documents from the County Archite Rhyd Offices, Brecon, Applications by Ochec 14 clinic at

Buckinghamshire.—Alterations to High Wycombe Royal Grammar School, canteen kitchen, to cost in the region of £750, for C.C. Applications to the County Architect, Council Offices, Aylesbury, Bucks. Tenders by Oct. 30.

Carlisle, Cumb. — Construction of a reinforced concrete underground pumping station, together with a brick-built control house, at Harraby. for City Council. Documents from Rofe and Raffety, 9 Brewer's Green, Westminster, S.W.I. Deposit £2 2s., by cheque. Tenders by Nov. 1.

Cork, Fire — Behalt to

Tenders by Nov. I.

Cork, Eire.—Rebuilding of the Opera
House at Emmet Place for the Cork Opera
House Co., Ltd. Documents from P. F.
Coveney, quantity surveyor, 47 South Mall,
Cork. Deposit £52 l0s. Plans seen at the
offices of the Quantity Surveyor or Michael
Scott, architect, 19 Merrion Square,
Dublin. Tenders by Nov. 1.

Scott, architect, 19 Merrion Square, Dublin. Tenders by Nov. 1.

Croydon, Surrey.—Thirty-five pram stores, small maintenance store, 24 garages and parking areas for 32 cars to be erected on the Auckland Rise housing estate, for B.C. Applications to the Borough Engineer, Town Hall, Croydon. Tenders by October 30.

Down.—Erection of a new child health clinic and library at Catlewellan for C.C. Documents from the County Planning Officer, English Street. Downpatrick, or from G. M'Neill, 29 Wellington Place, Belfast, 1. Deposit £3. Tenders by Oct. 23.

Dunstable, Beds.—Construction of a new assembly hall on the Civic Centre site, for B.C. Main contractors who would be interested in tendering for such work should so reply to Jack Smith, town clerk, Municipal Offices, High Street North, Dunstable (giving particulars of comparable work done with the names of persons to whom reference may be made), by October 13 Subscentractors particulars of comparable work done with the names of persons to whom reference may be made), by October 13. Sub-contractors may also submit like information, but marked "Sub-contracting." Thereafter the Dunstable Corporation will, from approved tenderers, invite tenders. An indication of the work involved may be obtained directly from Shingler and Risdon, architects and surveyors. Lichheld House, Frith Street, Soho Square, London, W.1 (tel.: Gerrard 7391).

East Sussex.—Erection of a divisional police

East Sussex.—Erection of a divisional police headquarters and court house at East Grinstead, for C.C. Apply to the County Architect, County Hall, Lewes, by October 9. Selected contractors will be provided with bills of quantities on November 8.

East Sussex.—Erection of a civil defence training centre, at Hove, for C.C. Apply to the County Architect, County Hall, Lewes, by October 12. Selected contractors will be provided with bills of quantities on October 27.

provided with bills of quantities on October 27.

East Sussex.—Erection of a branch library at Willingdon, for C.C. Apply to the County Architect, County Hall, Lewes, by October 16. Selected contractors will be provided with bills of quantities on October 31.

Edinburgh.—External painter work at the following housing areas for City Council: (1) Granton Mains (part); (2) Whitson; (3) Chesser (4) Old Saughton (5) Oxgangs (6) Westfield. Application in writing to the City Architect, City Chambers, Edinburgh, 1, by Oct. 10, indicating areas for which documents are required.

Essex.—Following for C.C.: (1) Basildon ambulance station and civil defence centre; (2) Basildon day nursery. The works will be in traditional construction. Estmated costs: (1) £25,000; (2) £16,000. Submit names to H. Conolly, county architect, County Hall, Chelmsford, by Oct. 7.

Failsworth, Lancs.—Partial demolition and rebuilding of shop front at 467 Oldham Road, to conform with the agreed improvement line, for B.C. New windows and doors and frames are to be supplied. Detailed specification from the office of the Engineer and Surveyor, Town Hall, Oldham Road, Failsworth. Deposit £1 ls. Tenders by October 21.

Gravesend, Kent.—Renewal of gutters to 77 prefabricated bungalows at Lorton Road, for B.C. Documents from Borough Engineer and Surveyor, 6 Woodville Terrace, Gravesend. Tenders by October 20.

Hampshire.—Erection, in traditional construction, of a single-storey fire station in Station Road, Wickham, for C.C. The area of the new building will be approximately 1,485 sq. ft. Applications to the County Architect, The Castle, Winchester, by Oct. 10. Deposit £1 ls. (cheques payable to the County Treasurer). Tender documents will be available about Oct. 16.

*Haverhill, Suffolk.—Block of four small factories for U.D.C. Deposit £3 3s. Tenders by Oct. 16.

*Hebburn. Dur.—Laying thermoolastic tile

factories for U.D.C. Deposit £3 3s. Tenders by Oct. 16.

*Hebburn, Dur.—Laying thermoplastic tile flooring in 48 flats and maisonnettes, central area for U.D.C. Tenders by Oct. 9.

High Wycombe, Bucks.—Construction of 24 brick garages at Hicks Farm estate, for B.C. Documents from J. A. Parkinson, borough engineer and surveyor, Municipal Offices, High Wycombe, Tenders by October 23.

High Wycombe, Bucks.—Construction of two brick garages at Clarendon Road, for B.C. Documents from J. A. Parkinson, borough engineer and surveyor, Municipal Offices, High Wycombe, Tenders by October 16.

*Huddersfield, Yorks.—Alterations and additions to cattle market for B.C. Applications by Oct. 23. Deposit £2 2s. Tenders by Nov. 13.

*Huddersfield, Yorks.—Erection of day

"Huddersfield, Yorks. — Alterations and additions to cattle market for B.C. Applications by Oct. 23. Deposit £2 2s. Tenders by Nov. 13.

"Huddersfield, Yorks. — Erection of day nursery at Northgate for B.C. Deposit £2 2s. Tenders by Oct. 23.

Huddersfield, Yorks. — Erection of public conveniences at Blacker Road, Birkby, for B.C. Documents from the Borough Architect's Office, High Street Buildings, Huddersfield. Tenders by Oct. 23.

Huntingdonshire. — Adaptations, including the insertion of a new floor, to provide additional storage accommodation at County Buildings, Huntingdon, for C.C. Documents from S. M. Holloway, county architect, County Buildings, Huntingdon, for C.C. Documents from S. M. Holloway, county architect, County Buildings, Huntingdon, Tenders by October 10.

Keighley, Yorks. — Adaptations to labour ward and admission unit at St. John's Hospital, for Leeds Regional Hospital Board. Applications accompanied by deposit of £2 2s. to the Architect to the Board, Park Parade, Harrogate, by October 11. Cheques payable to the Leeds Regional Hospital Board and crossed. Drawings, etc., seen at the office of the Architect to the Board, or at the office of Morley and Keighley, chartered architects, 55 Sunbridge Road, Bradford 1.

Kildare, Eire, — External painting of St. Mary's Hospital, Naas, Tenders by October 10.

King's Lyan, Norfolk. — Maintenance work in the section with the medianter content of the section work.

King's Lynn, Norfolk. — Maintenance work in conjunction with the modernisation scheme at present being carried out, as follows, for B.C.: (Contract 1) Renewal of baths and sinks in 22 houses; renewal of baths only in 24 houses; renewal of sinks only in 24 houses; renewal of sinks only in 21 houses; boxing in of existing baths in eight houses. (2) Renewal and addition to electrical systems in 90 houses. The houses are situated in Fermoy Avenue, Raby Avenue. Smith Avenue and Metcalf Avenue. Documents from the Borough Engineer, 17 Queen Street, King's Lynn. Tenders by Oct. 12.

Kingston - upon - Thames, Surrey. — Alterations and extensions for old people's flatleis, for B.C. The property to be altered and extended is 33 Gloucester Road; the new accommodation will comprise 20 bed-sitting room units and a guest room. Applications to the Borough Surveyor, Guildhall, Kingston-upon-Thames, by October 9.

Lancashire. — Demolition of existing garage and cycle shed in traditional construction, together with alterations to toilets at the Garstang Divisional Police Headquarters, near Preston, for C.C. Applications to the County Architect, P.O. Box 26, County Hall, Preston, by Oct. 9.

Leeds. — Removal of concrete roof lights and replacement with timber framed and glazed upstands with patent glazing over at Quarry Hill Laundry, Quarry Hill, for City Council. Documents from Director of Works, Sweet Street, Leeds 11. Deposit £2, cheques payable to Leeds Corporation. Tenders by noon October 19. King's Lynn, Norfolk. — Maintenance work in conjunction with the modernisation scheme

ber 19.
*Lewisham.—Extension of out-patients and casualty department, etc., at Lewisham Hospital, for the South East Metropolitan Regional Hospital Board, Applications by Oct. 20.

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Llantrisant and Llantwit Fardre, Glam.— Repair of one private dwelling house in the Tonyrefail area, for R.D.C. Documents from the Clerk of the Council, Council Offices, Danygraig, Llantrisant, Glamorgan, Tenders by the Clerk Danygraig, l October 16.

Cotober 16.

Londonderry. — Roofing of the general studies block of Templemore Intermediate School, in wood wool sections covered with green mineral roofing felt, approximate area 3,000 sq. ft., for City Council. Documents from the City Engineer and Surveyor, 5 Guildhall Street, Londonderry. Tenders by October 10.

Mansfield, Notts.—Following at Ladybrook housing estate for B.C.: contract Gl2, five garages, Bonington Road; Gl3, four garages, Ladybrook Place. Documents from the Borough Engineer and Surveyor, Carr Bank, Mansfield. Deposit £2 2s. each contract. Tenders by Oct. 18.

Market Harborough. Leics. — Conversion

Mansfield. Deposit £2 2s. each contract. Tenders by Oct. 18. Market Harborough, Leics. — Conversion and improvements to 3, 5, 7 and 9 Main Street, Fleckney, for R.D.C. Documents from Francis W. Keyworth, architect, 20 Park Road, Melton Mowbray. Tenders by

Park Road, Melton Mowbray. Tenders by Oct. 31.

Mere and Tisbury, Wilts.—Erection of public conveniences at the car park, Salisbury Street, Mere, for R.D.C. Documents from M. E. Barrett, clerk of the Council, Council Offices, Mere, Warminster. Deposit £2 2s. cheque. Tenders by October 18.

Midlothian.—Erection of a public convenience and 12 garages at Whitecraig, for C.C. Applications to the County Architect, 32 Palmerston Place, Edinburgh, by October 9.

Montgomery. —Proposed improvements to Town Hall for B.C., comprising: (i) Laying of concrete floor over existing ground floor, building partition wall and sundry other works; (ii) conversion of coke-firing to oil-fired central heating. Documents from Edward J. Lloyd, town clerk, Council Offices, Arthur Street, Montgomery. Tenders by Oct. 19.

Montgomeryshire. — Domestic improvement works at Cefngwyn, Trefeglwys, for C.C. Particulage from D. A. Cresswell County

Montgomeryshire. — Domestic improvement works at Cefngwyn, Trefeglwys, for C.C. Particulars from D. A. Cresswell, County Land Agent. County Offices, Welshpool. Tenders by Oct. 12.

Norfolk.—Erection of a small children's home at East Dereham, which will be a two-storey building (aggregate floor area approximately 2,500 sq. ft.) with outbuildings, for C.C. Submit names to the County Architect 27 Thorpe Road, Norwich, by October 16 Selected contractors will be supplied with a bill of quantities about October 26,

North Riding.—Erection of county primary school at Lakes estates, Redear, for C.C. Documents from the County Architect or Johns. Slater and Haward, architects, 32 Foundation Street, Ipswich. Plans may be seen at the County Hall, Northallerton. Tenders by November 6.

Nottingham.—Construction of a clinic and

seen at the County Hall, Northallerton. Tenders by November 6.

Nottingham.—Construction of a clinic and pavilion at Arnold Lane, Bestwood Park estate, for City Council. Documents from the City Engineer and Surveyor, Guildhall, Nottingham. Deposit £2. Tenders by Oct. 24.

Omagh, Tyrone.—Erection of a subsidy residence at Hospital Road for B. Shiels, Killyclogher Road, Omagh. Documents from R. H. Beck and Co., 6 Market Street. Omagh. Deposit £3 3s. Tenders by Oct. 14.

Oswestry, Salop.—Erection of public conveniences at the Old Racecourse, near Oswestry, for R.D.C. Documents from the Engineer and Surveyor, Castle View, Oswestry. Deposit £3 3s. Tenders by October 16.

Oxfordshire.—Erection of Thame Ambulance Station, for C.C. Building will provide accommodation for two ambulances and be of brick construction. Submit names to the County Architect, Park End Street Offices, Oxford immediately.

Perth and Kinross.—Alterations and additions at Alyth Jurius Secondary. School Beatlenness.

County Architect, Park End Street Offices, Oxford immediately.

Perth and Kinross.—Alterations and additions at Alyth Junior Secondary School, Perthshire (total floor area of proposed additions 27,250 sq. ft.), for C.C. Excavator: Concrete and brick works; carpenter and joiner works; plaster work; glazier work, and electrical work. Contractors may quote for any or all of these trades. Applications with a statement of the trade or trades, to the County Architect, New Schools Section, Old Academy Buildings, Rose Terrace, Perth, by October 9.

Peterborough.—Six brick garages, Hill Close, for City Council. Documents from the Town Clerk, Town Hall, Peterborough. Denosit £2.

Peterborough.—Improvements to eight Council houses, Borough Fen, for R.D.C. Documents from the Council's Surveyor, 51 Priestgate, Peterborough. Tenders by Oct. 17.

Pewsey, Wilts.—Modernisation of 1 to 12 Burbage Road, Easton Royal, for R.D.C. Documents from the Engineer and Surveyor, Council Offices, Pewsey. Tenders by

Portsmouth.—Following for City Council:
(a) Eastern Road caravan site—provision of showers, laundry facilities and alterations to existing toilets; (b) Cliffdale caravan site—provision of showers, laundry facilities, toilets and store sheds. Contractors should apply for documents to the City Architect, I Western Parade, Portsmouth, by Oct. 11, stating in which contract(s) they are interested. Deposit £1 each contract. It is a condition of tendering that the contracor shall, at the date of his tender, have in his employment not less than one indentured apprentice to every eight craftsmen who were employed

not less than one indentured apprentice to every eight craftsmen who were employed by him on the previous Jan. I.

Portsmouth.—Erection of Divisional Police Headquarters, Kingston Crescent, consisting of three-storey reinforced concrete frame structure for City Council. Apply to Bailey and Piper, architects, 213 West Street, Fareham, by Oct. 9. Deposit £1. It is a condition of tendering that the contractor shall, at the date of his tender, have in his employment not less than one indentured apprentice to every eight craftsmen who were employed by him on the previous Jan. 1.

Raunds, Northants.—External painting of

who were employed by him on the previous Jan. 1.

Raunds, Northants. — External painting of 30 houses, Park Avenue, for U.D.C. Documents from the Surveyor, Council Offices, The Hall, Raunds. Deposit £1 ls. Tenders by Oct. 16.

Redcar, Yorks.—Lakes neighbourhood centre—first phase, for B.C. The contract will consist of 24 shops with maisonnettes and elevated walkways over, and 64 garages and stores. Tenders will be invited early in 1962. Submit names to Hugh Caldwell, Town Clerk, Municipal Buildings, Redcar, by October 20.

St. Austell, Corn.—Construction of 15 garages at Alexandra Road for U.D.C. Documents from H. G. King, engineer and surveyor, Municipal Offices, St. Austell. Deposit £2 2s. Tenders by Oct. 16.

Tenders by Oct. 16.

Scarborough, Yorks. — Erection of fish market and stores, West Pier, for B.C. Documents from V. Forshaw, borough engineer and surveyor, Town Hall, Scarborough. Deposit £2 2s. Tenders by October 11.

£2 2s. Tenders by October 11.

Settle, Yorks.—Improvements to the infirmary block and sanitary accommodation in the main block at Castleberg Hospital, Giggleswick, for the Leeds Regional Hospital Board. Documents from the Architect to the Board, Park Parade, Harrogate, by noon, Oct. 11. Deposit £2 2s., cheques payable to the Board and crossed. Plans also seen at the office of Mortimer Partners, architects, Ainderby Hall, Northallerton. The Bills of Quantities will be ready to send to tenderers during the first week in November and three weeks will be allowed for tendering.

Spilsby, Lines.—Addition of bathroom, h.

Spilsby, Lines.—Addition of bathroom, h. and c. water supply and drainage to any at all of the following houses, for R.D.C. Ulceby, two; Skendleby, two; Welton, two; Willoughby, four; Orby, two; Burgh-le-Marsh, two. Documents from Engineer and Surveyor, Council Offices, Toynton Hall, Spilsby, Tenders by October 23.

willoughby, four; Oroy, two; burgh-te-Marsh, two. Documents from Engineer and Surveyor, Council Offices, Toynton Hall, Spilsby, Tenders by October 23.

Stoke-on-Trent, Staffs.—Following for City Council: (a) Improvements—Fenton Police Station—new messroom and drying facilities; (b) electrical installations—College of Building, Cauldon—fire alarm installation, Trentham/Hanford—stage II junior school—electrical installation; (c) miscellaneous—Trentham/Hanford—stage II junior school—wrought iron balustrades; Ball Green C.S. School—storage black-out blinds. Written application for particulars to City Architect, Kingsway, Stokeon-Trent, by October 10. Deposit £2, for each contract for which they wish to tender. Tenders by November 7.

Sunderland, Dur.—Erection of ambulance depot, Hylton Road, for B.C. Documents from Borough Architect, Grange House, Stockton Road, Sunderland, Deposit £22, cheques payable to Sunderland Corporation. Tenders by October 18.

Sunderland, Dur.—Erection of 6 shops and flats and 6 garages Ravenscourt Road, Hylton Road of garages Ravenscourt Road, Hylton Road Sunderland, Deposit £2 2s, cheques payable to Sunderland Corporation, Tenders by October 23.

Tredegar, Mon.—Repair and/or rebuilding of retaining walls in the Tredegar area, for U.D.C. Documents from the Engineer/Surveyor, Park Chambers, Tredegar. Tenders by Oct. 12.

Tyrone.—Redecoration at Omagh Primary

Oct. 12.

Tyrone.—Redecoration at Omagh Primary School meals kitchen: and erection of headmaster's residence at Edwards Primary School, Castlederg, for C.C. Applications for documents stating which contract it is wished to tender for, to the Chief Education Officer, Education Offices, Omagh. Tenders by October 17.

ber 17.

Wakefield, Yorks.—Following for R.D.C.:
(a) Painting 98 houses at Kirkthorpe; (b)

surfacing roads at Heath Common; (c) constructing vehicle turning area at Shariston Common. Documents for (a) and (b) from I. T. Payne, council's engineer and surveyor, 18 St. Johns North, Wakefield. With regard to item (c) contractors are requested to quote for the completed job of turf strip, excavate for and lay 8in. red shale in 4in. layers off Fernside footpath on an area 60ft. x 20ft. The spoil may be spread as directed on the Common or removed by the contractor. No tender form will be issued for this work.

Wellingborough, Northants.—Conversion of an aluminium bungalow into changing accommodation at Henshaw Road, for U.D.C. Documents from R. Kilby, engineer and surveyor, Council Offices, Swanspool, Wellingborough, Tenders by October 16.

West Riding.—Dismantling of a single West Riding classroom unit at Shipley Crag Road Junior School, breaking-up foundations and reinstating playground, and re-erection of the structure at Baildon Greencliffe Primary School, including forming a new base, to gether with ancillary works, for C.C. Documents from the Divisional Architect, Salisbury Buildings, Albert Street, Harrogate. Tenders by October 31.

West Riding.—Provision of staff toilets within the existing staff room.

ments from the Divisional Architect, Salisbury Buildings. Albert Street, Harrogate. Tenders by October 31.

West Riding. — Provision of staff toilets within the existing staff room at the Garforth Kippax J.M. School for C.C. Documents from the Divisional Architect, Bishopgarth, Westfield Road, Wakefield. Tenders by Oct. 31.

West Riding. — Adaptations and improvements at the Harrogate Fire Station, for C.C. Documents from the Divisional Architect, Salisbury Buildings, Albert Street, Harrogate. Tenders by Oct. 30.

West Riding. — Following works at the Home for the Aged, The Beeches, Tadcaster, for C.C.: (a) conversion of old store rooms into visitors rooms, rest rooms, sun lounge, library, etc.; (b) rebuilding of external male toilets, ash pound and bin store. Documents from the Divisional Architect, Salisbury Buildings, Albert Street, Harrogate. Tenders by Oct. 30.

West Riding.—Internal painting of the Low Bentham Central Kitchen, Victoria Institute, Low Bertham during the Christmas builder.

West Riding.—Internal painting of the Low Bentham Central Kitchen, Victoria Institute, Low Bentham, during the Christmas holiday period of the schools—December 21, 1961 to January 8, 1962, for C.C. Documents from D. Matthew, divisional education officer, Educa-tion Office, Water Street, Skipton. Tenders by October 10.

October 10.

Wokingham, Berks.—Works of improvement and repair at 18 houses, for B.C. Documents from the Borough Surveyor, Town Hall, Wokingham, Tenders by October 16.

Yorkshire.—Internal and external painting work at Northowram Hall Hospital, Halifax, and at the Stansfield View Hospital, Todmorden, for the Halifax Area Hospitals Management Committee. Documents from the Group Secretary, Royal Halifax, Infirmary, Halifax, An appointment to inspect the premises should be made with the Hospital Secretary at the appropriate Hospital. Tenders by October 10.

CLOTHING AND TEXTILES

CLOTHING AND TEXTILES

Ashton-under-Lyne, Lancs.—Supply of the following for the various departments of the B.C.: (1) Uniform clothing; (2) protective clothing, Applications for particulars of requirements, etc., of each of the above enclosing stamped and addressed envelope, to G. A. Malone, town clerk, Town Hall, Ashton-under-Lyne. Tenders by October 20.

Flintshire.—Supply of industrial overalls, chrome leather and rubber gloves and rubber boots. Documents from County Surveyor, Llwvnegrin, Mold. Tenders by Oct. 16.

West Ham.—Supply of the following for Mevive months from January 1, 1962, for B.C.: (a) Uniforms—general and firemen; (b) dungarees—general and firemen; (c) caps—general and firemen; (e) raincoats—chauffeurs; (f) health visitors uniforms; (g) footwear—general and firemen; (h) smocks—blue serge and leather covered. Documents from Borough Engineer, Town Hall, Stratford E.15. Tenders by October 20.

DEMOLITION

Caerphilly, Glam. Demolition of the slaughterhouse, Taff's Well, for U.D.C. Documents from the Engineer and Surveyor, Council Offices, Caerphilly. Tenders by October 16.
Gloucestershire. — Demolition of masony pier and abutments at Haw Bridge, over the River Severn (B.4213), and transport of material to nearby disposal site, for C.C. Documents from County Surveyor, Quay Street, Gloucester. Deposit £5, payable to C.C. Tenders by October 27.
Gravesend, Kent.—Demolition of certain properties in Arthur Street, for B.C. Documents from Borough Engineer and Surveyor, 6 Woodville Terrace, Gravesend. Tenders by October 20.

Heywood, Lancs.—Demolition of a former printing works in Church Street and Hartley Street, for B.C. The work includes complete demolition, filling cellars, removal of materials and clearing of the site. Documents from the Borough Engineer and Surveyor, Municipal Buildings, Heywood. Deposit £2 2s. Tenders

Buildings, Heywood. Deposit £2 2s. Tenders by Oct. 14.
Southport, Lancs.—Demolition of a lean-to greenhouse at the Promenade Hospital, for the fouthport and District Hospital Management Committee. Documents from the Group Secretary, Southport and District Hospital Management Committee, Promenade Hospital, Southport, Tenders by October 16.
Sunderland, Dur.—Demolition of Bishopwarmouth Mills, Chester Road, for B.C. Documents from the Borough Engineer, 2. Fawcett Street, Sunderland, Deposit £1 1s., cheques payable to Sunderland Corporation. Tenders by October 18.
Watford, Herts.—Demolition of a chapel situated in the grounds of Shrodells Hospital, for West Herts. Group Hospital Management Committee. Documents from H. M. Maskell, group secretary, 9 Rickmansworth Road, Watford. Tenders by Oct. 16.

Committee. Documents from H. M. Maskell, goup secretary, 9 Rickmansworth Road, watford. Tenders by Oct. 16.

Wellington, Salop.—Demolition and site clearance of nine houses in Foundry Road, 20 houses in Wrekin Road and I house in Orleton Lane, for U.D.C. Documents from the Surveyor, Council Offices, 14 Walker Street, Wellington. Tenders by October 10.

ELECTRICAL

Belfast.—Supply and erection of 32/11 kV., 7,500 kva, step-down transformers, for City Council. Documents (W.200) in duplicate from the Electricity Department, East Bridge Street, Belfast, 1. Deposit £2 2s, Extra copies of documents may be obtained at £1 ls. each, which sum will not be returnable. Cheques payable to the Belfast Corporation Electricity Department. Tenders by October 27.

payable to the Bernst Coporation at Department. Tenders by October 27.

Cardiff.—Complete electrical installation at Splott Park Clinic, for City Council. Documents from the City Surveyor, City Hall. Cardiff. Deposit £2 2s., cheques payable to the Cardiff Corporation and crossed "Not Negotiable and Co." Tenders by October 16.

Down.—Electrical (heating and lighting) installation in the new clinic and library at Castlewellan, for C.C. Documents from McCandless and Barton, 6 Murray Street, Belfast, I. Deposit £2. Tenders by October 23.

Durham.—Electrical installation at Consett police station, for C.C. Application to County Architect, South Street, Durham, by October 11.

East Lothian.—Electrical work at Gifford sewage disposal works, comprising cabling and switchgear for three motors and lighting for workshop, for C.C. Documents from Carter and Wilson, C.E., 51 Queen Street, Edinburgh 2

and Wilson, C.E., 51 Queen Street, Edinburgh, 2.

Frimley and Camberley, Surrey.—Provision of electrical points, including all wiring fittings, etc., and the installation and testing of approximately 600 refrigerators in Council houses, for U.D.C. The refrigerators will be supplied by the Council. Documents from Engineer and Surveyor, Municipal Buildings, London Road, Camberley. Tenders by October 16.

Keighlay, Vorks.—Powinger of the electrical

Keighley, Yorks.—Rewiring of the electrical installation at Worth Village County Primary School, for E.C. Documents from the Education Office, Town Hall Square, Keighley. Tenders by October 10.

lenders by October 10.

Lurgan, Armagh.—Modification of electrical installation in Ministry of Commerce factory. United Kingdom Optical Co., for Ministry of Finance, Documents from Room 103, Law Courts Building, Belfast, 1. Tenders by Oct. 10.

Manchester.—Electrical installation to the new city abattoir, Philips Park, for City Council. Documents from the City Architect, P.O. Box 488, Town Hall. Tenders by Oct. 25.

Manchester.—Electrical installations, follow-Manchester.—Electrical installations, following for City Council: Seven hundred and sixtytight dwellings, contract 356, Heywood; 42 dwellings, contract 352, Butler Street. Documents from The Director of Housing, Town Hall, Manchester, 2. Tenders by Oct. 11.

Peterborough.—Electric lighting and power installations to 140 dwellings on Bluebell and Crown Street estates, for City Council. Documents from the City Engineer, Town Hall, Peterborough. Deposit £2. Tenders by Oct. 11.

Peterborough. Oct. 11.

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Scunthorpe, Lincs.—Electrical re-wiring to modern standards of 226 pre-war council houses, Crosby estate, for B.C. Documents from the Housing Manager, Housing Department, Lincoln Gardens, Scunthorpe. Tenders by Oct. 20.

ment, Lincoln Gardens, Scuntnorpe, Tenders by Oct. 20.

West Riding.—Re-wiring of electrical instal-lation at the Divisional Office, 6 Victoria Road, Barnsley, for C.C. Documents from the Divisional Architect, Bishopgarth, West-field Road, Wakefield, Tenders by Oct. 23.

FENCING

Bridlington, Yorks.—Supply and erection of 500 lin. yd. of 6ft. high plastic-covered chain link fencing, together with all necessary reinforced concrete end and intermediate posts, and two tubular farm gates, for B.C. Documents from the Borough Engineer, Town Hall, Bridlington. Tenders by Oct. 16.

Peterborough.—Supply of wooden fencing materials for C.C. Documents from the County Surveyor, County Offices, Bridge Street, Peterborough. Tenders by Oct. 17.

GAS AND WATER SUPPLY

*Barnstaple, Devon.—Construction of Sowden (Fort Hill) service reservoir, contract 103, for North Devon Water Board. Deposit £2 2s. Tenders by Oct. 28.

*Coleraine, Londonderry. — Bulk gas supply for B.C., including the laying of approximately 9,200yd, of 8in. diameter spun-iron gas mains from Coleraine to Portrush. Applications to the Engineer and Manager, Coleraine Borough Council, Gas Department, Hanover Place, Coleraine. Tenders by Oct. 30. Oct. 30.

Hanover Place, Coleraine. Tenders by Oct. 30.

Cork, Eire.—Construction of water supply and sewerage schemes for Dripsey Model Village, for C.C. The contract involves the laying of pipelines as follows: 2,207 lin. yd. of 4in. diameter p.v.c. watermain; 545 lin. yd. of 6in. diameter S. and S. concrete sewer. And the construction of: Infiltration gallery; pumphouse: 40,000 gal. capacity R.C. reservoir; 13,000 gal. capacity R.C. septic tank. Documents from the Council Offices, 7 Fr. Matthew Quay, Cork. Deposit £3 per contract. Tenders by October 14.

*East Elloe, Lines.—Laying water main for R.D.C. Deposit £2 2s. Tenders by Nov. 4.

*East Shropshire.—Broseley water supply extensions and relief pipeline at Coalbrook-dale, for the East Shropshire Water Board. Deposit £3 3s. Tenders by November 3.

*East Shropshire.—Overdale/Hadley link main, for the East Shropshire Water Board. Deposit £3 3s. Tenders by November 3.

Falmouth, Corn.—Construction of approximately 920yd, of 9in. diameter spun iron water main between Bickland Water and Mongleath Road, for B.C. Documents from B. I. Sweeney, borough surveyor and water engineer, Municipal Offices, Falmouth, Deposit £5 5s.

borough surveyor and water engineer, A cipal Offices, Falmouth, Deposit £5 cheque only. Tenders by October 14.

borough surveyor and water engineer, Municipal Offices, Falmouth, Deposit £5 5s., cheque only. Tenders by October 14.

Kincardineshire.—Loch Lee water supply scheme. Distribution piping—phase 1—contract 5, for C.C., comprising excavating and refilling trenches for and providing, and laving and jointing about 8,300yd. of 6in., 5,500yd. of 4in. and 1,500yd. of 2in. diameter asbestoscement pipes, and for the construction of a reinforced concrete tank of 75,000 gallons capacity at Hunters Hill, with relative works. Written application for documents to Crouch and Hogg, engineers, 18 Woodside Crescent, Glasgow C.3. Deposit £5. Plans also seen at the office of the County Sanitary Inspector, The Briars, Stonehaven. A representative of the engineers will meet intending tenderers outside the Ramsay Arms Hotel, Fettercairn, at 2 p.m. October 9. Tenders by October 30.

*Manchester.—Pipes and specials Hawes—

October 30.

*Manchester. — Pipes and specials Haweswater aqueduct, contract S.P. 7, for City
Council. Tenders by Oct. 30.

Council. Tenders by Oct. 30.

Newport, Mon.—Supply of pipe to Mathern for Newport and South Monmouthshire Water Board, including the laying of approximately 1,240yd. of 6in. diameter and 670yd. of 4in, diameter spun-iron water mains and ancillary works. Documents from the Engineer and Manager, Royal Chambers, High Street, Newport. Deposit £2 2s.

Tenders by Oct. 16.

Omach Tyrone—Supplying and laying of

Omagh, Tyrone.—Supplying and laying of approximately 1.627 lin. yd. of 2in. diameter class C Everite water mains at Carony Drumquin, for R.D.C. Documents from class C Everite Water mains at Carbon, Drumquin, for R.D.C. Documents from Council's Engineer, Rural District Council Offices, Omagh. Tenders by October 18.

*South Derbyshire.—Covering of existing service reservoirs, for Water Board. Apply by

*Woodbridge, Suffolk. — Supply water softening plant for U.D.C. Applications by Oct. 29.

HARBOURS, PIERS AND SEA DEFENCE WORKS

Erpingham, Norfolk.—Construction of a permeable steel and timber reverment approximately 200ft. long at Overstrand for R.D.C. Documents from S. W. and P. S. Mobbs, consulting engineers, Gordon Hall, Gordon Road, Lowestoft. Deposit £2 2s. (cheques payable to the Council). Tenders by Oct, 16.

by Oct. 16.

Ross and Cromarty.—Concrete protection works on sea wall at the Isthmus to Eye Peninsula, for C.C. Plans seen at the County

Surveyor's Office 84 High Street, Dingwall, or at the Highways Offices, Bayhead Street, Stornoway, Isle of Lewis. Documents had on deposit cheque for £5. Tenders by October 24.

HEATING AND VENTILATING

Ballymoney, Antrim.—L.P.H.W. heating, hot, cold and mains water installations, new office building, John Street, for the Ministry of Finance. Documents from Room 103, Law Courts Building, Belfast, 1. Tenders by

Finance. Documents from Room 103, Law Courts Building, Belfast, 1. Tenders by Oct. 23.

Beccles, Suffolk.—Installation of hot water systems and minor improvements to 142 dwellings situated at Ellough Road, Castle Hill, Common Lane, Grove Road and Upper Grange Road, for B.C. Documents from the Borough and Water Engineer's Department. Municipal Offices, Beccles, Deposit £3 3s. Tenders by October 14.

Cork, Eire.—Heating and mechanical installations in the new opera house, Emmet Place, for the Cork Opera House Co., Ltd. Documents from J. Varming and S. Mulcahy, consulting engineers, 10 South Mall, Cork and 4 Northbrook Road, Leeson Park, Dublin. Deposit £26 5s. Tenders by Oct. 27.

Cork, Eire.—Installation of a L.P.H.W. heating system at Knocknagree National School, for the Office of Public Works, 51 St. Stephen's Green, Dublin, 2 Deposit £1. Tenders by October 17.

East Riding.—Installation of heating and hot and cold water services at the following properties for C.C.: (a) Home for Aged Persons, Norton; (b) Fire Station, Driffield. Documents from County Architect, County Hall, Beverley. Tenders by (a) Oct. 19, (b) Oct. 10.

Newry, Down.—L.P.H.W. heating, hot, cold

Hall, Beverley. Tenders by (a) Oct. 10.

Newry, Down.—L.P.H.W. heating, hot, cold and drinking water service installations, Head Post Office, for Ministry of Finance. Documents from Room 103, Law Courts Building, Belfast, 1. Tenders by October 16.

Newry, Down.—Low pressure hot, cold and drinking water service installations, Head Post Office, Newry, for Ministry of Finance. Documents from Room 103, Law Courts Building, Belfast, 1. Tenders by Oct. 16.

Finance. Documents from Room 107, Survivalence of Courts Building, Belfast, I. Tenders by Oct. 16.

West Riding. — Installation of additional boiler house equipment at County Welfare Establishment, Beech Towers, Staincliffe, near Dewsbury, for C.C. Documents from the County Architect, Bishopgarth, Westfield Road, Wakefield. Tenders by Oct. 13.

HOUSING SCHEMES

*Aberdare, Denbighs.—Nine flats at Penyvaun for U.D.C. Deposit £2 2s. Tenders by lov. 8.

*Aberdare, Denbighs.—Nine flats at Penywaun for U.D.C. Deposit £2 2s. Tenders by Nov. 8.

Arnold, Notts.—Seventy houses and 36 garages at the Oxclose housing estate, for U.D.C. Documents from the Surveyor, Arnot Hill House, Arnold. Deposit £2. Tenders by October 30.

Ashton - in - Makerfield, Lancs. — One hundred and ten dwellings, Low Bank Road housing estate, for U.D.C. Documents from Cheetham and Partners, architects, 7a Library Street, Wigan. Deposit £5 5s., cheque payable to Council. Tenders by October 27.

Basingstoke, Hants.—One hundred and ninty-six dwellings comprising two-storey flats, four-storey maisonnettes, and houses; also 147 garages, at South Ham estate, for B.C. The scheme is situated on one site where main roads and sewers are nearing completion, but included in the contract will be ancillary service roads and footpath works. Documents from Eric Almond, borough architect, Municipal Buildings, Basingstoke. Deposit £2 2s. Tenders by October 24.

Bath, Som.—Proposed conversion of house into two flats and one maisonnette at 7 Oxford Row, for City Council. Documents from the Surveyor of Corporate Property, Guildhall, Bath, Deposit £2 2s. Tenders by October 18.

Billingham, Dur.—Twelve bungalows at Rochester Road, for U.D.C.—contract period six months. Documents from the Engineer and Surveyor, Council Offices, Haverton Hill, Billingham. Deposit £2 2s. Tenders by October 23.

Bournemouth, Hants. — Following sub-

Billingham. Deposit £2 2s. Tenders by October 23.

Bournemouth, Hants. — Following subcontract work for housing contract (72 flats). Contract N.72 Kinson estate (R.I.B.A. form of contract), for B.C.: Electrical installation, roof tiling, wrought-iron balustrading, thermoplastic flooring, granolithic flooring. Application to the Borough Architect, Town Hall, Bournemouth, by October 21.

Brownhills, Staffs.—Four dwellings and 30 garages at Bradford Road/Hussey Road, for U.D.C. Documents from Charles H. Hunt, engineer and surveyor, Coombe House, Brownhills. Deposit £2 2s. Tenders by October 16.

Caernarvon.—Block of 23 flats, together with all ancillary site works, at Church Street, for B.C. Documents from Lingard and Associates, architects, 88-90 Conway Road, Colwyn Bay. Deposit £2 2s. Plans

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een at the offices of the Architects or at the Borough Surveyor's Office, Swyddfa'r Dref, High Street, Caernarvon. Tenders by Borough Su. Street,

Borough Surveyor's Office, Swyddfa'r Dref, High Street, Caernarvon. Tenders by October 16.

*Carlton, Notts. — Ninety-eight houses at Phoenix Farm estate, site 36, scheme 92, for U.D.C. Deposit £2. Tenders by Oct. 25.

Chesterton, Cambs.—Fourteen bungalows in the Parish of Dry Drayton, for R.D.C. Documents from the office of the Architect, Council Hall, Hobson Street, Cambridge, Deposit £2 2s., cheques payable to council. Tenders by October 16.

*Colne, Lanes. — Eighty-two flats and 12 houses at Lob Common for B.C. Deposit £2 2s. Tenders by Oct. 24.

Dukinfield, Ches.—Two hundred Homeville tradition dwellings, roads, footpaths and main sewers at Yew Tree Lane estate, for B.C. The dwellings comprise: 18 one-bedroom bungalows; 84 one-bedroom flats; 38 three-bedroom houses; 16 units—corner blocks; four shops and flats. Contractors may submit a tender for either dwellings or roads and sewers, etc., or the whole of the works. Documents from the Housing Manager, Town Hall, Dukinfield. Deposit £3 3s. Tenders by October 30.

Essex. — Pair of woodmen's cottages, at Thorndon Park, Brentwood, for C.C. Documents from County Land Agent and Valuer, 69 Duke Street, Chelmsford. Tenders by Oct. 17.

Farnborough, Hants.—Three-storey blocks

69 Duke Street, Chelmsford. Tenders by Oct. 17.

Farnborough, Hants.—Three-storey blocks of dwellings comprising 12 one-bedroom flats and 12 two-bedroom maisonneties in three blocks and laying paths, drains, etc., Broomhill Road site, Minley estate, for U.D.C. Documents from Engineer and Surveyor, Municipal Offices, Alexandra Road, Farnborough, Tenders by November 6.

Greenwich.—Ninety-four flats and maisonnetts in four-storey blocks and 70 flats in one 18-storey block, on the Haddo Street site, for B.C. Applications, giving details of contracts recently undertaken, particularly any comprising tall blocks of flats, to G. C. Turk, town clerk, Town Hall, Greenwich, S.E.10, by first post, Oct. 20. Plans may be inspected during normal working hours at the office of the Borough Engineer and Surveyor. Tenderers will be required to sign, or refuse to sign, a certificate declaring that they are not parties to any scheme or arrangement with other tenderers in respect of the amount of, or the adjustment of, their tender.

they are not parties to any scheme or arrangement with other tenderers in respect of the amount of, or the adjustment of, their tender.

Havant and Waterloo, Hants.—One fourstorey block of 16 maisonnettes and two three-storey blocks comprising eight maisonnettes and four flats with drainage and external works at Milton Road, Waterlooville, for U.D.C. Documents from Thomas, Lamble and Co., quantity surveyors, Pearl Buildings. Commercial Road, Portsmouth, on or after October 10. Tenders by November 7.

Heanor, Derbys.—One pair bungalows, Bailey Brook Drive, Godkin estate, Langley Mill, to provide one three-bedroom bungalow, for U.D.C. Documents from J. H. Garside, engineer and surveyor, Council Offices, Heanor, Deposit £3 3s. Tenders by October 13.

Isle of Man.—One farmworkers' cottage at The Lhergy, St. Marks, Malew, for the Local Government Board. Documents from the Architect and Planning Officer, Murrey House, Douglas, Deposit £2 2s., payable to the Government Treasurer. Tenders by October 24.

Isle of Man.—One farmworkers' cottage at Ballaclucas, Marown, for the Local Government Board. Documents from the Architect and Planning Officer, Murray House, Douglas, Deposit £2 2s., payable to the Government Treasurer. Tenders by October 24.

Isle of Man.—One farmworkers' cottage at Sallaclucas, Marown, for the Local Government Treasurer. Tenders by October 24.

Kesh, Fermanagh.— Erection of farmworker's cottage, woodman's type, at Vaughan Agricultural Institute, for Ministry of Finance. Documents from Room 103, Law Couris Building, Belfast, 1, and seen at Royal Ulster Constabulary Station, Kesh. Tenders by October 16.

Leominster and Wigmore, Heres.—Fourbungalows at Green Lane, Orleton, for R.D.C. Documents from the Engineer and Surveyor. Il Corn Square. Leominster. Deposit £3 3s. Tenders by October 16.

Newmarket, Cambs.—Fourteen flats in Mill Lanes, Exning, near Newmarket. Documents from P. D. Lees, Council Offices, Severals House, Newmarket, Documents from the Mid-Wales House, Newmarket, Documents from the Mid-Wa

by November 10.

New Radnor, Radnors.—Erection of a police house and office accommodation at Broad Street, New Radnor, for the Mid-Wales Police Authority. Documents from the County Architect at the County Hall, Llandrindod Wells, Tenders by October 30.

Omagh, Tyrone. —Twelve bungalows and ancillary works at Gardrum, Dromore, for R.D.C. Documents from the Rural District Council Offices, Omagh. Deposit £2 2s. Tenders by Oct. 12.

Omagh, Tyrone.—Seven houses with site works at Church Street, Fintona, for R.D.C. Documents from the Rural Council Offices, Omagh. Deposit £2 2s. Tenders by Oct. 12.

Preston, Lancs.—One hundred and forty-one dwellings and 68 garages, Ingol, for B.C. Documents from the Borough Engineer and Surveyor. Municipal Building, Preston. Deposit £2 2s. Tenders by Oct. 19.

*Rochester, Kent.—Housing (1) and (2), for City Council. Deposit £3 3s., each. Tenders by November 7 (1) and October 24 (2).

Rochford, Essex.—Five bungalows, one two-storey block of flats and one block of three garages at Malting Villas Road and North Street, for R.D.C. Documents from Engineer and Surveyor, Council Offices, Rochford. Deposit £2. Tenders by October 17.

*Rugby, War.—Fifty-four flats. 26 houses and nine bungalows at Abbotts Farm estate for B.C. Deposit £2 2s. Tenders by Nov. 7.

Staffordshire.—Erection of a senior police officer's house with R.C. foundations, at Longford Road, Cannock, for C.C. Applications to T. H. Evans, clerk of the county council, County Buildings, Stafford, by October 11. Deposit £2 2s., cheques payable to Council, Tenders by November 3.

Truro, Corn.—Six bungalows, access footpath, etc., at Springfield estate, Portscatho, for R.D.C. Applications to J. H. Snellgrove and Partners, council's quantity surveyors, 47 Coinagehall Street, Helston, by October 9, accompanied by deposit of £2 2s., cheques payable to the Rural District Council of Truro, Drawings seen at the offices of Alfred J. Cornelius, council's architect, 13 Lemon Street, Truro. Tenders by November 6.

Watford, Herts.—Twelve traditional houses and 12 garages at Upper Highway, Abbots Langley, on the site of Hillside House, for B.C. Applications to F. C. Sage, borough engineer and surveyor, Town Hall, Watford, by 2 p.m. October 11.

2 p.m. October 11.

Watford, Herts.—Two houses, 8 flats and 4 garages at Muriel Avenue, for B.C. Applications to F. C. Sage, borough engineer and surveyor, Town Hall, Watford, by 2 p.m. surveyor, 18

ctober 18.

West Suffolk.—Erection of a house on pretred reinforced concrete raft foundation, at
ree Farm, West Row Fen, for C.C. Docuents from the County Land Agent, Shire
all, Bury St. Edmunds. Tenders by Octopared Tree ments Hall.

ber 31.

Wortley, Yorks. — Fifty-four traditional dwellings in 23 blocks of houses and four blocks of bungalows in traditional construction at Piece End, High Green, Sheffield, for R.D.C. Documents from A. Wikeley, engineering the process of the control of the process of the control of the process of the R.D.C. Documents from A. Wikeley, engineer and surveyor, Council Offices, Grenoside, Sheffield. Deposit £5. Tenders by Nov. 2.

MATERIALS AND SUPPLIES

MATERIALS AND SUPPLIES

Brighton.—Supply of two self-contained truck kilns, for the New College of Art and Crafts, for B.C. Documents from the Director of Education, 54 Old Steine, Brighton, 1. Tenders by October 14.

*Flintshire.—Supply school stationery, etc., for E.C. Tenders by Oct. 30.

Leicester.—Supply of the following materials during the period Jan. 1 to Dec. 31, 1962, for City Council: Ironmongery and tools; sewerage ironwork; stoneware pipes, etc.; Portland cement; granite road materials; gravel, sand and clinker ashes; concrete flags, pipes and kerbs; road spfaying materials. Documents from the City Surveyor's Department (Costing Section), 1 St. Nicholas Street, Leicester. Tenders by Nov. 3.

*Newcastle upon Tyne. — Supply of dock rail for City Council.

New Windsor.—Supply of materials for B.C. Refer to our issue of Sept. 28, page 1542. Tenders by Nov. 4.

MISCELLANEOUS

Dagenham, Essex. — Transport service equipment, new transport workshops, for B.C. Documents from the Borough Engineer and Surveyor, Civic Centre, Dagenham. Tenders

PLANT AND MECHANICAL TRANSPORT

PLANT AND MECHANICAL TRANSPORT

Berkshire.—Supply during the finincial year
1962/63 of the following appliances to be
constructed on chassis supplied by this
authority, for the Berkshire and Reading Fire
Authority: (1) Water tender, type B, mounted
on A.E.C. mark I Mercury chassis of 11ft. 6in.
wheelbase; (2) water tender, type B, mounted
on Commer Fire chassis of 11ft. 9in. wheelbase. Full details of specification, together
with ancillary equipment to be provided, from
the Chief Fire Officer, 24 Westcote Road,
Reading. The appliances must satisfy the
requirement of specification ICDD/3/1 (revised
June 1960). Tenders by October 30.

Kenilworth, War.—Supply of two petrol-

Kenilworth, War. — Supply of two petrol-driven trucks each of about 10-15cmt. capacity, for U.D.C. The price submitted should in-clude an allowance for the vehicles which

are being replaced. Documents from G. A. J. Edmundson, engineer and surveyor, Council House, Kenilworth. Tenders by Oct. 14.

Newcastle upon Tyne.—Supply and free delivery to Newcastle Quay of two diesel engine Forklift trucks on pneumatics, maximum load three tons height of mast 16ft., to be fitted with jib attachment for City Council. Further particulars from the office of the City Engineer, Town Hall, Newcastle upon Tyne, 1.

Newcastle upon Tyne—Supple

of the City Engineer, Town Hall, Newcastle upon Tyne, 1.

Newcastle upon Tyne.—Supply and free delivery to Newcastle Quay of two diesel electric mobile cranes, capable of fingling loads up to a maximum of three tons, on pneumatics, for City Council. Contractors should state outreach with various loads, and approximate date of delivery. Further particulars from the office of the City Engineer, Town Hall, Newcastle upon Tyne, 1.

Rugby, War.—Supply of one refuse collection vehicle of the fore-and-aft tipping or dual-tip type, 25 cu, yd. capacity for B.C. Documents from the Borough Surveyor, Town Hall, Rugby. Tenders by Oct. 17.

*Southend-on-Sea, Essex.—Supply of motor mowing machines and gang mower for B.C. Tenders by Oct. 11.

Worsley, Lancs.—Supply of a 22/30 cu, yd. capacity Karrier Blenheim compression refuse vehicle, for U.D.C. Particulars from the Chief Public Health Inspector, 12 Bridgewater Road, Walkden. Tenders by October 9.

PLAYING FIELDS, PARKS, ETC.

Manchester.—Layout of playing fields for City Council: (a) St. Wilfrid's C. of E. Primary School, Northenden; (b) Shackcliffe Green Secondary School, Moston. Documents from the City Architect, P.O. Box 488, Town Hall. Tenders by Oct. 17.

RIVER AND FLOOD PREVENTION WORKS

Newry, Down.—Construction of flood relief works for U.D.C., comprising: (a) The diversion of the head waters of the Derrybeg Stream to the Bessbrook River; (b) the culverting of the Glen Stream for a distance of 340yd., approximately; (c) the culverting of the Cloghoe Stream for a distance of approximately 210yd. Documents from Munce and Mannady consulting engineers 133 University

the Cloghoe Stream for a distance of approximately 210yd. Documents from Munce and Kennedy, consulting engineers, 133 University Street, Belfast, 7. Deposit £3 3s., cheques payable to Council. Plans also seen at Town Hall, Newry. Tenders by Oct. 23.

South East Derbyshire. — Cleaning of approximately 1,150yd. of watercourse situated off Wilne Road, Shardlow, for R.D.C. Documents from Senior Public Health Inspector, Council Offices, St. Mary's Gate, Derby. Tenders by October 16.

ROADS, BRIDGES AND SITE WORKS

ROADS, BRIDGES AND SITE WORKS

Aireborough, Yorks.—Making-up of Westfield Drive, Yeadon (approximate length 320ft.)
with pitched carriageway surfaced with tarmacadam and asphalt, p.c. concrete flagged footpaths, surface water drainage and other ancillary works, for U.D.C. Documents from the Engineer and Surveyor's Office, Micklefield House, Rawdon, near Leeds. Deposit £3 3s.

*Ashbourne, Derbys.—Carriageway, etc., Waterworks Field, stage I, for U.D.C. Deposit £1 1s. Tenders by November 13.

*Aspull, Lanes.—Surface water sewers and

*Aspull, Lancs.—Surface water sewers and service roads. Scotmoor development site, for U.D.C. Deposit £3 3s. Tenders by Oct. 20.

*Altrincham, Ches.—Construction of a pading pool in hot rolled and mastic asphalt. 80ft. by 30ft.. together with ancillary works at Stamford Park, for B.C. Documents from the Borough Surveyor, Town Hall, Altrincham. Deposit £2 2s. Tenders by Oct. 16.

*Bridgwater, Som.—Reconstruction of Eastover (A.38) for B.C., comprising breaking-out approximately 2,700 sq. yd. of reinforced concrete carriageway, the re-laying of approximately 1,700 sq. yd. of slab paving, and approximately 500 lin. yd. of kerbing, together with all ancillary works. Documents from the Borough Engineer, Town Hall, Bridgwater. Deposit £2 2s. Tenders by Oct. 30.

*Cardiff.—Footway reinstatement work for Chem.

Deposit £2 2s. Tenders by Oct. 30.

Cardiff.—Footway reinstatement work for the period ending March 31, 1963, for City Council. Mainly, the work will involve the renewal or re-laying of concrete paving slabs, with some bitumen macadam surfacing in various streets throughout the city after erection of new and removal of old street lighting columns. Tenders must be enrolled on the Queen's National Roll or submit satisfactory reasons for not being so enrolled and must have complied for at least three months immediately preceding the date of this notice with the General Conditions of the Fair Wages Resolution passed by the House of Commons on Oct. 14, 1946. Documents from the City Surveyor, City Hall, Cardiff. Tenders by Oct. 13.

Cardiff.—Improvement of Heol Esgyn, Cyncoed, involving the reconstruction of about 200 lin. yd, of road with drainage and ancillary works, for City Council. Documents from the City Surveyor, City Hall, Cardiff. Deposit £2 2s., cheques payable to the Cardiff Corporation and crossed "Not Negotiable and Co." Tenders by October 13.

Carmarthen.—Myrddin Crescent reconstruction, for B.C. Work comprises approximately 2,000 sq. yd. of carriageway together with terbing, channelling, flagged footpath, surface water drainage and ancillary works. Documents from I. V. Evans, borough engineer and surveyor, Municipal Buildings, Carmarthen. Deposit £2 2s. Tenders by October 10.

"Carmarthenshire. — Pontardulais - Crosshands-Carmarthen trunk road, A.48, contracts I.2 and 3 for C.C. Deposit £2 each contract. Tenders by Oct. 20.

Chedle and Gatley, Ches.—Making-up of following for U.D.C.: Glandon Drive (part), Cheadle Hulme; Oak Drive, Cheadle Hulme, Documents from the Engineer and Surveyor. Town Hall. Cheadle, Cheshire. Deposit £2 2s. Tenders by Oct. 12.

Cheltenham. Glos. — Reconstructing and widening part of St. James's Street and the construction of a car park off St. James's Street, for B.C. The works include the demonstruction of a car park off St. James's Street, for B.C. The works include the demonstruction of a car park off St. James's Street, for B.C. The works include the demonstruction of a car park off St. James's Street, for B.C. The works include the demonstruction of a car park off St. James's Street, for B.C. The works include the demonstruction of a car park off St. James's Street and the construction of a car park off St. James's Street for B.C. The works include the demonstruction of a car park off St. James's Street for B.C. The works include the demonstruction of a car park off St. James's Street for B.C. The works include the demonstruction of a car park off St. James's Street for B.C. The works include the demonstruction of a car park off St. James's Street for B.C. The works include the demonstruction of

*Cheshire. — Widening Shrewsbury-Whit-church-Warrington trunk road at Norcott Brook for C.C. Deposit £5 5s. Tenders by Nov. 6

Nov. 6.

Chesterfield, Derbys.—Following for R.D.C.:
(a) Construction of footpaths, verges and lay-by at Reynard Crescent. Renishaw; (b) construction of footpaths and verges on parts of Arnold Avenue, Stoneley Crescent and Stoneley Close, Charnock Hall estate, Gleadless. Scheme (a) comprises 660 sq. yd. of 2in. tarmacadam footpath and 540 lin. yd. of 2in. by 6in. concrete edging. Scheme (b) comprises 1,150 sq. yd. of 2in. tarmacadam footpath and 1,100 lin. yd. of 2in. by 6in. concrete edging. Documents from J. B. Wikeley, engineer and surveyor, Rural Council House, Saltergate, Chesterfield. Deposit £2 2s. each scheme. Tenders by Oct. 10.

Chesterfield, Derbys.—Surfacing of four

Chisterfield, Derbys. — Surfacing of four lengths of trunk road A.61 totalling approximately 6,300 sq. yd. in hot rolled asphalt with igneous rock aggregates, for B.C. Documents from the Borough Engineer and Surveyor, Town Hall, Chesterfield. Tenders by Oct. 20. Chingford, Essex. — Minor road improvements and resurfacing works to (a) Kings Road, A.110; and (b) Friday Hill, B.160, for B.C., comprising the scarifying and resurfacing with bituminous concrete and hot rolled asphalt of approximately 3,020 sq. yd. of carriageway, together with approximately 660 lin. yd. of subsoil drainage, and other incidental works. Documents from the Borough Engineer, Town Hall, E.4. Deposit 22 s. Tenders by Oct. 17.

Coulsdon and Purley, Surrey.—Extension

22 zs. Tenders by Oct. 17.

Coulson and Purley, Surrey.—Extension to Purley car park for U.D.C. Documents from H. M. Collins, engineer and surveyor, council Offices, Purley. Deposit £3 3s. Tenders by Oct. 20.

Dagenham, Essex.—Resurfacing Whalebone lane bridge (west side) for B.C. Documents from the Borough Engineer and Surveyor, Civic Centre, Dagenham. Tenders by Oct. 14.

from the Borough Engineer and Surveyor, Civic Centre, Dagenham. Tenders by Oct. 14.

*Derbyshire.— Derby - Chesterfield Trunk Road, A.61. improvement between Smithy houses and Marehay level crossing for C.C. Deposit £5. Tenders by Oct. 31.

Dorking, Surrey.—Construction of approximately 180 lin. yd. of footway, Chapel Lane, Westhumble, for U.D.C. Documents from the Engineer and Surveyor, Council Offices, Pippbrook, Dorking. Tenders by Oct. 16.

*Ellesmere Port, Ches.—Greenfield Road and Cambridge Road improvements for B.C. Tenders by Oct. 23.

*Enfield, Middx.—Resurfacing of Manor Farm estate, for B.C. Deposit £2. Tenders by October 17.

Great Harwood, Lancs.—Making-up of Earl Street and Russell Place, 43 lin. yd. and 129 lin. yd. long respectively, for U.D.C. Tarmacadam carriageways and footways on sommal foundations. Documents from P. W. R. Webber, engineer and surveyor, Town Hall, Great Harwood, Tenders by October 25.

Hawarden, Ches.—Formation of hard standings on the caravan site, Gladstone Way, Quensferry, for R.D.C. Work comprises 4,000 super. yd. of concrete in 74 standings,

together with drainage and incidental works. Applications for documents to the Surveyor, Council Offices, Hawarden, Chester, by October 7. Tenders by October 25.

Hazelgrove and Bramhall, Ches.—Following works for U.D.C.: (1) Approximately 1,300 sq. yd. of reflagging and 750 lin. yd. of rekerbing in Argyle Street, Lever Street and Cooke Street, Hazel Grove, including concrete crossings and incidental works; (2) surfacing with hot rolled asphalt in Argyle Street, Lever Street and Cooke, Street, Hazel Grove, including incidental and remedial works. The area to be surfaced is approximately 2,800 sq. yd. Documents from the Engineer and Surveyor at the Council House, Hazel Grove, near Stockport. Tenders by Oct. 17.

Hull.—Following, for City Council: Recon-

Hazel Grove, near Stockport. 1 enders by Oct. 17.

Hull.—Following, for City Council: Reconstruction of the backroad at the rear of 137-195 Steynburg Street, 91-103 Wynburg Street, and adjoining 137 and 195 Steynburg Street, comprising approximately 850 sq. yd. of concrete paving, together with drainage works. Documents from City Engineer, Guildhall, Hull. Deposit £2, to City Treasurer. Tenders by October 18.

Keighley, Yorks.—Making-up the following for B.C.: (a) Southfield Avenue, Riddlesden (length 163yd. approximately); (b) Southfield Mount, Riddlesden (length 72yd. approximately). Documents from the Borough Engineer's Office, College Street Keighley. Tender by Oct. 16.

field Mount, Riddlesden (length 72yd, approximately). Documents from the Borough Engineer's Office, College Street Keighley. Tender by Oct. 16.

*Kent.—Various private street works, for C.C. Deposit £2., each. Tenders by October 16.

*Lancashire.—Construction of Ford Factory Bridge for C.C. Deposit £5. Tenders by Nov. 7.

Bridge for C.C. Deposit £5. Tenders by Nov. 7.

Leicester. — Following roadworks for City Council: (1) West Bridge—widening of existing carriageway over bridge by approximately 4ft.; (2) Lutterworth Road, near City Boundary—construction of bus lay-by; (3) Melton Road opposite A.E.I. Works — closing of existing opening to central reservation and construction of new opening; (4) Wellington Street/Waterloo Street Junction—realignment of kerb and construction of new footway; (5) Narrow Lane off Belgrave Gate — reconstruction of approximately 120 sq. yd. of carriageway; (6) Baker Street redevelopment area—construction of new asphalt surfaced carriageway, footpaths and 9in. diameter F.W. sewer between Northampton Street and Baker Street. Documents from John L. Beckett, city surveyor, Town Hall, Leicester. Deposit £1 ls. Tenders by Oct. 20.

ments from John L. Beckett, city surveyor, Town Hall, Leicester. Deposit £1 ls. Tenders by Oct. 20.

Little Lever, Lancs.—Reconstruction and widening of approximately 200yd, of High Street (north side) from William Street to Masefield Road, for U.D.C. The works comprise excavation, surface water drainage, construction of carriage and flagged footways. Documents from the Surveyor, Council Offices, High Street, Little Lever, near Bolton, Deposit £2 2s. Tenders by November 6.

London.—Construction of a new road between Wilton Road and Vauxhall Bridge Road, Westminster, for C.C. Documents from the Chief Engineer. Contract and other relevant documents may be inspected on personal application at Room 450D, County Hall, before payment of fee. Remittance by post should be addressed to the Chief Engineer. County Hall, Westminster Bridge, S.E.I Deposit £3, crossed cheque or order payable to the Council. Tenders by Oct. 23.

*London.—Widening of High Holborn for C.C. Deposit £3. Tenders by Oct. 30.

*Manchester.—Constructing 50,000 sq. yd. of bituminous macadam carriageway, 8,500 lin. yd. of 9in. to 30in. diameter sewer, and all ancillary work at Haughton Green overspill site, Denton, for City Council. Documents from the City Surveyor (Room 208), Town Hall, Manchester, 2. Tenders by Oct. 30.

*Margate, Kent.—Canterbury Road improve-

spill site, Denton, for City Council. Documents from the City Surveyor (Room 208), Town Hall, Manchester, 2. Tenders by Oct. 30.

"Margate, Kent.—Canterbury Road improvement, stage 1, for B.C. Tenders by Oct. 14.

Merthyr Tydfil, Glam.—Advance preparation of a further stage of the Gurnos neighbourhood unit to comprise 125 houses together with site drainage and the laying of water mains, for B.C. Documents from the Borough Engineer's Department, Town Hall, Merthyr Tydfil. Deposit £3 3s. Tenders by Oct. 19.

Newcastle - under - Lyme, Staffs. — Approximately 1,200 cu, yd. of excavation, 130 lin. yd. of 6in. diameter combined sewer, 200 lin. yd. of 6in. diameter combined sewer, 200 lin. yd. of kerbing and 1,400 sq. yd. of carriageway and footpath surfacing for Charles Street development, for B.C. Documents from the Borough Engineer and Surveyor, Lancaster Building, High Street, Newcastle, Staffs. Tenders by Oct. 16.

Newcastle-under-Lyme, Staffs. — Following for B.C.: (1) Basford Bank—approximately 400 tons hot asphaltic base course material in regulating course, 3,800 sq. yd. of 14in. thick machine laid hot rolled asphaltic wearing surface, dressed with precoated chippings;

(2) Watlands View—approximately 260 tons hot asphaltic base course material in regulating course, 2,600 sq. yd. of lin. thick machine laid hot rolled asphaltic wearing surface, dressed with precoated chippings. Documents from the Borough Engineer and Surveyor, Lancaster Building, High Street, Newcastle, Staffs. Tenders by Oct. 10.

Newent, Glos.—Construction of 1,250 sq. yd. of tarred macadam carriageway, laying of 300yd. of 6in. and 9in. soil and surface water sewers, construction of five brick manholes and laying of 180yd. of 3in. water main, at West View for R.D.C. Documents from the Surveyor, R.D.C. Offices, High Street, Newent. Deposit £2 2s. Tenders by Oct. 11.

Oldbury, Worcs.—Provision of approximately 1,200yd. of kerb and channel, approximately 1,400 sq. yd. of concrete flagging at Lion Farm estate, contract 61/12 for B.C. Documents from the Borough Engineer and Surveyor, Municipal Bank Chambers, Oldbury. Deposit £2 2s. (cheques payable to the borough of Oldbury). Tenders by Oct. 12.

Paignton, Devon.—Construction of approximately 500yd. of roads, pavings, and road drainage in part of Preston Down Road, for U.D.C. Documents from Engineer and Surveyor, Municipal Offices, Oldway, Paignton Tenders by October 16.

Peterborough.—Removal of the war memorial in Marholm Village, and the re-erection on a new site, for C.C. Documents from the County Surveyor, County Offices, Bridge Street, Peterborough. Tenders by Oct. 17.

*Poole, Dorset.—Making-up of various streets for B.C. Deposit £2 2s.

Oct. 17.

*Poole, Dorset. — Making-up of various streets for B.C. Deposit £2 2s. Tenders by streets to

*Poole, Dorset. — Making-up of various streets for B.C. Deposit £2 2s. Tenders by Oct. 23.

*Poole, Dorset. — Reconstruction of New Quay Road and Ferry Road for B.C. Deposit £2 2s. Tenders by Oct. 23.

*Pudsey, Yorks.—Advance preparation of housing site, for B.C. Deposit £2 2s. Tenders by October 14.

Romford. — Resurfacing of A.118 main road for a length of approximately 570yd., from Crossways to Castellan Avenue, for B.C., comprising the re-laying of 1,200 lin. yd. of granite and concrete kerb, laying 120 tons hot rolled asphalt base course for regulating and shaping, 6,200 sq. yd. of 1½in, thick hot rolled asphalt wearing course, re-laying 2,900 sq. yd. of slab paving, 1,350 sq. yd. of 1½in thick bitumen macadam wearing course to footways and verges, together with various ancillary works. Documents from the Borough Engineer and Surveyor, Town Half, Romford. Deposit £2 2s. (cheque). Tenders by Oct. 23.

Scotland.—Detail design, supply, installa-

13in thick bitumen macadam wearing course to footways and verges, together with various ancillary works. Documents from the Borough Engineer and Surveyor, Town Hall, Romford. Deposit £2 2s. (cheque). Tenders by Oct. 23.

Scotland.—Detail design, supply, installation, and putting into service of a system of heating to prevent the freezing of the road surface or snow lying thereon in the area of the foll booths on the southern approach of the Forth Road Bridge, near Hopetoun cross-roads, for the Forth Board Bridge Joint Committee. The area to be heated covers some 11,000 sq. yd. and the installation must include the necessary sensing devices for automatic control, switching for hand control, and heating elements working off the Electricity Board's mains at a voltage of about 240. Contractors prepared to do the whole of the work should apply to Mott, Hay and Anderson, consulting engineers. 9 Iddesleigh House, Caxton Street, London, S.W.I. Tenders by October 16.

*Southend-on-Sea, Essex. — Construction of access road off Sutton Road for B.C. Submit names by Oct. 13. Deposit £2.

*Stoke-on-Trent, Staffs. — Making-up of private streets, for City Council. Deposit £2. each Tenders by October 11.

Stoke-on-Trent, Staffs. — Milton Road, Sneyd Green widening, for City Council work Consists of widening, reconstruction and surfacing of the carriageway in bitumen macadam (approximately 3,100 sq. yd.) concrete flat paving, surface water drainage, etc. Documents from City Engineer and Surveyor, Town Hall, Stoke-on-Trent, Deposit £3. Tenders by Oct. 17.

Tyrone. — Major improvement work on route T.3. Newtownstewart-Strabane Road at Birnaghs, for C.C. The work consists of complete reconstruction of approximately two miles of road and includes a reinforced concrete bridge over the River Derg of 150ft, overall span on piled foundations. Documents from the County Surveyor's Office, John Street, Omagh. Deposit £5 5s. Tenders by Oct. 12.

*Wilton, Wilts. — Road resurfacing at Bubridge for B.C. Applications to Colin Rowntree and Partn

SEWERAGE, SEWAGE AND REFUSE DISPOSAL

*Ballymena, Antrim.—Main drainage, con-act 3, for B.C. Deposit £5. Tenders by

*Ballymena, Antrim.—Main drainage, contract 3, for B.C. Deposit £5. Tenders by November 3,
*Barnet, Herts.—Soil and surface water sewers at Barnet Gate Lane, for U.D.C. Tenders by October 14.
*Birmingham.—Supply bacteria bed media for Minworth new works for the Birmingham Tame and Rea District Drainage Board. Tenders by Oct. 16.
*Bridge-Blean, Kent. — Thanington-Without (Tonford Lane and Ashford Road) sewerage scheme for R.D.C. Deposit £2 2s. Tenders by Nov. 8.

*Bridport, Dorset.—Burton Bradstock sew-age disposal works extension for R.D.C. Tenders by Oct. 16. *Cardiff.—Construction of Palace Road

*Bridport, Dorset.—Burton Bradstock sewage disposal works extension for R.D.C. Tenders by Oct. 16.

*Cardiff.—Construction of Palace Road relief sewer, for City Council. Deposit £2 2s. Tenders by October 23.

*Cardiff.—Eastern outfall sewers diversion for City Council. Deposit £2 2s. Tenders by Oct. 23.

*Colchester, Essex.—Foul sewer, Shrub End industrial estate, for B.C. Deposit £2. Tenders by Oct. 23.

*Coventry.—Extensions, mainly at the Finham sewage disposal works, during the next five or six years in a series of civil engineering contracts, the values of which are estimated to be up to £500,000. Applications to the City Engineer, Council House, Coventry, giving details of similar contracts already carried out, by Oct. 16.

*Droitwich, Worcs.—Sewerage and sewage disposal scheme, contract 1, for B.C. Deposit £5 5s. Tenders by October 31.

*Eton, Bucks.—Gerrards Cross relief sewers, for R.D.C. Apply by October 18.

*Flaxton, Yorks. — Meadowfields sewage pumping station and rising mains for R.D.C. Deposit £3 3s. Tenders by Oct. 23.

Gateshead, Dur.—Laying of a subsoil drain near Tyne Main Road for B.C. The work consists of the laying of approximately 210yd. of twin 6in. diameter pitch fibre piping at depths averaging 14ft., together with appropriate manholes. Documents from the Borough Surveyor, Muncipal Buildings, Swinburne Street, Gateshead, 8. Deposit £2, cheque payable to Borough Treasurer. Tenders by Oct. 14.

*Hollingbourn, Kent.—Headcorn sewage disposal works. contract 4, for R.D.C. Apnly by Oct. 14.

Street, Gateshead, 8. Deposit £2, cheque payable to Borough Treasurer. Tenders by Oct. 14.

"Hollingbourn, Kent.—Headcorn sewage disposal works, contract 4, for R.D.C. Apply by October 10. Deposit £10.

"Ilford, Essex.—Roding Valley mid-level soil sewer, stage 2, for B.C. Deposit £2 2s. Tenders by Oct. 24.

Kenilworth, War.—Supply and erection of duplicate float operated electrical pumps to be installed as replacements to the existing gas-engined plant, at Mill End, for U.D.C. Documents from G. A. J. Edmundson, engineer and surveyor, Council House, Kenilworth. Tenders by October 14.

Kingston - upon - Thames, Surrey.—Reconstruction of approximately 1,180yd. of circular brick sewers varying in diameter between 18in. and 24in., together with ancillary works, for B.C. Documents from Borough Surveyor, Guildhall, Kingston - upon - Thames. Deposit £2 2s. Tenders by Oct. 16.

Limavady, Londonderry.—Construction of a sewage scheme, contract 2, for U.D.C.; (a) Laying of sewers up to 18in. diameter and construction of manholes and making house connections; (b) construction of a sewage treatment works comprising detritus channels, settling tanks. percolating filters, etc. Documents from Munce and Kennedy, consulting engineers and architects. 133 University Street, Belfast. 7, or the Urban District Council Office, Town Hall. Limavady. Deposit £5 5s. Tenders by Oct. 27.

Luton, Beds.—Reconstruction of Barton-lecley sewage disposal works for R.D.C., including pumping plant, pumping main and extensions to sedimentation tanks.

by Oct. 27.

Luton, Beds.—Reconstruction of Barton-le-Cley sewage disposal works for R.D.C., including pumping plant, pumping main and extensions to sedimentation tanks, percolating filters, humus tanks and sludge drying beds. Documents from the Engineer and Surveyor, 48 Bute Street, Luton. Deposit £2 2s. Tenders by Oct. 31.

Malton, Yorks.—Sewerage and sewage disposal scheme for the village of Terrington, for R.D.C.: (a) Sewage disposal work; (b) 2,283 lin. yd. 6in. and 9in. diameter sewers with manholes and other ancillary work; (c) 742 lin. yd. 4in. and 6in. diameter house connections. Documents from Thomas Hicks, clerk of the Council, R.D.C. Offices, Welham Road, Norton, Malton. Deposit £2 2s. Further details from D. H. Moor, Council's consulting engineer, 12 Valley Bridge Parade, Scarborough. Tenders by Oct. 20.

Midlothian.—Construction of 404 lin. yd. of 9in. diameter, 90 lin. yd. of 15in. diameter soil and clear water sewers with manholes at Newbattle New Community, for C.C. Documents from County Engineer, 32 Palmerston Place, Edinburgh, 12. Tenders by October 13.

*North Lonsdale, Lancs.—Outgate sewerage and sewage disposal scheme for R.D.C. Tenders by Nov. 1.

*Rowley Regis, Staffs.—Storm water sewer, Birch Crescent, Tividale, for B.C. Deposit £2 2s. Tenders by Oct. 30.

Settle, Yorks.— Construction of two sedimentation tanks, detritus tank, sludge well, the re-laying of approximately 82 lin. yd. of 9in. sewer and other contingent works at Long Preston sewage disposal works, for R.D.C. Documents from Engineer and Surveyor, Town Hall, Settle. Tenders by October 23.

*Shaftesbury, Dorset. — Sewerage works, contract 1 and 2, for B.C. Deposit £5 5s. each contract. Tenders by Oct. 30.
*Shrewsbury, Salop.—Construction of new sewage treatment works for B.C. Applications by Oct. 9.

sewage treatment works for B.C. Applications by Oct. 9.

Weston-super-Mare, Som. — Dredging, regrading and other ancillary works in connection with the following rhynes, for the West Mendip Internal Drainage Board: Churchill Rhyne, Rockers extension, West Moor Rhyne, Poolyard Rhyne (part), Wolvershill Rhyne. Documents from R. G. Lickfold, clerk to the West Mendip Internal Drainage Board, Town Hall, Weston-super-Mare. Deposit £2 2s. Tenders by Oct. 11.

Yeovil, Som. — Construction of 12in. soil sewer, West Hendford, for B.C. The work comprises the laying of approximately 370 lin. yd. of sewer, with manholes and incidental works, and includes a crossing under the railway. Submit names to A. Heal, borough surveyor, Municipal Offices, Yeovil, by Oct. 13, giving the names of authorities for whom similar work has been carried out.

STREET LIGHTING

Ashton-under-Lyne, Lancs.—Installation of 23 group A street lamps within the borough, for B.C. Documents from Borough Surveyor, Municipal Offices, Ashton-under-Lyne. Deposit £2. Tenders by October 13.

for B.C. Documents from Borough Surveyor, Municipal Offices, Ashton-under-Lyne. Deposit £2. Tenders by October 13.

*Bognor Regis, Sussex.—Street lighting improvements, phase III for U.D.C. Deposit £2 2s. Tenders by Nov. 3.

*Chelmsford, Essex.—Group A street lighting, Baddow Road and Springfield Road, for B.C. Deposit £2 2s. Tenders by Oct. 20.

Durham.—Supply, erection and putting into service of a total of 20 overhead lighting units on and adjacent to the road A177 roundabout, near New County Hall, Aykley Heads, for C.C. The lanterns are to be 400-watt colour corrected mercury vapour type, 11 with cut-off distribution and nine non-cut-off, mounted at a height of 25ft, on steel columns. Documents from the County Surveyor, Aykley Heads, Durham. Tenders by October 16.

*Neath, Glam.—Lighting trunk road, A.465, Cadoxton-Aberdulais, for R.D.C. Deposit £2 2s. Tenders by October 24.

Oldbury, Staffs.—Erection of approximately 15 class B concrete street lighting columns and the supply and fitting of G.E.C. post top lanterns, with lamps, time switches, control gear, etc., at Lion Farm estate, contract 61/14, for B.C. Documents from the Borough Engineer and Surveyor, Municipal Bank Chambers, Oldbury. Deposit £2 2s., cheques payable to the Borough of Oldbury. Tenders by October 12.

*Port Talbot, Glam.—Street lighting scheme Harry site, Sandfields, for B.C. Deposit £2 2s. Tenders by Oct. 16.

*Rawtenstall, Lancs.—Improved street lighting, B.6238, Burnley Road East, for B.C. Deposit £2 2s. Tenders by Oct. 23.

INTERNATIONAL CONTRACTS

Karachi, Pakistan.—Construction of a new oil terminal to the south of the existing bulk oil pier in Karachi Harbour for the Port Trust. The new oil terminal will be about 930ft. long, with an operational depth of 34\ft. of water alongside to cater for tankers up to about 32,000 tons deadweight. The structure will comprise the following: (a) an approach arm about 825ft. long, having a pipe track, roadway and turning bay; (b) a jetty head 650ft. long and 38ft. wide, together with five mooring dolphins with connecting walkways. The new jetty will carry the necessary arrangements for oil, products and service pipelines, hose-handling, fire-fighting, and other equipment. It is envisaged that the constructional work will generally be carried out from floating craft, and the superstructure of the jetty and associated dolphins will be of normally reinforced concrete supported on steel box piles. Documents from either the Chief Engineer, Karachi Port Trust, Karachi, Pakistan, on payment of Rs.200.000 per set to the Habib Bank, Ltd., K.P.T. Branch, or from Rendel,

Palmer and Tritton, consulting civil engineers, 125 Victoria Street, London, S.W.l. on payment of a non-refundable sum of £15 sterling. Tenders by Nov. 6.

*West Parkistan.—Indus Basin project, for Water and Power Development Authority. Apply by November 15.

AWARDS

BUILDING AND DECORATING

(See also Housing Schemes)

Aldermaston, Berks.—Supplying and fixing of Nuraphalte roofing to new building at Atomic Weapons Research Establishment— Weatherall Roofing Co., Ltd., Whitehall Place, Gravesend, Kent.

Alton, Hants. — Supplying and fixing of Nuraphalte roofing to new ambulance station, for C.C.—Weatherall Roofing Co. Ltd., Whitehall Place, Gravesend, Kent.

Ltd., Whitehall Place, Gravesend, Kent.

Battersea.—Repairs, improvements and redecorations at Layender Hill Secondary School for L.C.C.—H. T. Oliver and Sons, Ltd., 371 (lapham Road, London, S.W.9, £41,979 (accepted); R. H. Lynn and Co., Ltd., 648,009; Galbraith Bros., Ltd., £52,508; E. J. Lacy and Co., Ltd., £53,821.

Berwick-upon-Tweed, Northumb.—Erection of a block of chalets at Spittal, for B.C.—J. H. Pierce, Osborne Road, Tweedmouth Billingham-on-Tees, Dur.—Erection of Methodist Church hall at Marsh House Avenue, R. Cowan, architect, 20 Finkle Street, Stockton-on-Tees, £7,000.

Bradford, Yorks.—Following for City Couractions.

R. Cowan, architect, 20 Finkle Street.
Stockton-on-Tees — John Bonar, Norton,
Stockton-on-Tees, £7,000.
Bradford, Yorks.—Following for City Council: Construction of Woodside Clinic—
T. Obank and Sons, Ltd., Thackley, Idle, £11,500; interior and exterior painting work at the Mother and Baby Home, 8
Oak Avenue—A. Turner and Sons, Ltd.
Bradford, £460; internal painting works at Princeville Junior and Infants' School—
N. Reilly, Prospect Villa, Halifax Road,
Queensbury, £485; alterations to the Upper Piccadilly premises—J. T. Metcalfe and Sons, Bradford, £755; supply and erection at Esholt sewage disposal works of a solvent store shed—Concrete Utilities, Ltd., Leeds, £556.
Camberwell.—Erection of a kitchen and a hall at Brunswick Park Primary School for L.C.C.—F. H. Beeching and Son (Keston), Ltd., Bromley, Kent, £22,454 (accepted); Norman Wright (Builders), Ltd., £23,700; C. P. Roberts and Co., Ltd., £27,22; Yeomans and Partners, Ltd., £28,590; Wm. Willett (Contractors), Ltd., £28,722; Thomas and Edge, Ltd., £29,050.
Cheltenham, Glos.—Following for B.C.: reponents 32 old people's flats and 20 houses

Cheltenham, Glos.—Following for B.C.: te-roofing 32 old people's flats and 20 houss at Whaddon estate—Marley Tile Co., Ltd. Duckmoor Road, Bristol, 3, £2,561 (recommended).

mended).
Provision of 20 lock-up garages at
Tewkesbury/Swindon roads site—Woolaway
Construction Ltd., West Bay Road, Bridport,
Oorset (recommended), estimated cost

£1,407.

Cleckheaton, Yorks.—Cleaning and painting of bridges on the Cleckheaton Branch, for British Railways (North Eastern Region—Arundel (Contractors), Ltd., Bradford.

Culham, Oxon.—Supplying and fixing of Weatherall Nuraphalte roofing to new laboratories (Phase II), for United Kingdom Atomic Energy Authority—The Weatherall Roofing Co., Ltd., Whitehall Place, Gravend, Kent, £9,900.

Derby.—Erection of new workshops, offices

end, Kent, £9,900.

Derby.—Erection of new workshops, offices and petrol filling station at St. Helen's Street for the Universal Car Co. (Derby, Ltd. T. H. Thorpe and Partners, architects, 41 Friar Gate, Derby.—Ford and Weston, Ltd., Osmaston Road, Derby.—Estimated cost £80,000 to £90,000.

Dundee.—Construction of the first phase of the Overgate central redevelopment scheme for Murrayfield Real Estate Co., Ltd. Ian Burke, Martin and Partners, architects, IT Tay Street, Dundee — Charles Gray (Builders), Ltd., Dundee. Estimated cost £750,000.

Edmonton, Middx.—Following for B.C.: Re-

£750,000.

Edmonton, Middx.—Following for B.C.: Repainting of 47 acquired properties—A. Herbert and Sons, 280 Hazelbury Road, London, N.9, £1,119 (recommended). Sub-contractors for thermoplastic flow tiling for blocks A, B, C and D at West Street redevelopment — The Marley Tile Co., Ltd., 251 Tottenham Court Road, London, W.1, £979.

Asbestos roofing for blocks C.1 and D.1 for Montague South Industrial estate—Wingins-Sankey, Ltd., Wyfold Road, London, S.W.6, £822.

Metal windows for block K and asphalt roofing for block H at Claverings Industrial Estate — Williams and Williams, Ltd., 37 High Holborn, London, W.C.1, £1,407, and H. V. Smith and Co., Ltd., 3 Melton Street, London, N.W.1, £2,516.

Roof tiling at Halliwick development—H. J. Wedge and Sons, 99 High Road, London, N.15, £2,587; roof slating, metal balustrading and doors for block 9 at Snell Park redevelopment, N.18—H. J. Wedge and Sons, £337; Booth and Driver, Ltd., 16 Oakleigh Road North, London, N.20, £1,672, and Walter Lawrence and Son, Ltd., 31 Sun Street, London, E.C.2, £714, respectively.

Evesham, Worcs.—Modernisation of 52 houses at Deacle Road and King's Road for B.C.—D. J. Sinclair, Evesham, £21,000.

Exter.—Following for City Council: Construction of Stage I of the new bus and coach station at Paris Street—Helical Bar and Engineering Co., Ltd., 82 Victoria Street, London, S.W.1, £33,272; erection of a shelter at King George's Field—Soper and Ayers, 64a Magdalen Street, Exeter, £659; 20 garages at Burnthouse Lane housing estate—S. P. Clements, 61 Queens Road, Exeter, £3,622 (recommended).

Glendale, Northumb.—Improvement and modification of Wooler slaughterhouse for R.D.C.—I. Tully and Co., High Street, Wooler, £5,248.

Harlepool, Dur.—Erection of laundrette and shop premises at Northgate for B.C.—Direct Labour, £3,500.

Hebburn-on-Tyne, Dur.—Erection of storage building of about 62,000 sq. ft. at the works of A. Reyrolle and Co., Ltd. Cackett, Burns, Dick and McKellar, architects, 21 Ellison Place, Newcastle upon Tyne—Sir Robert McAlpine and Sons, Ltd., 81 Jesmond Road, Newcastle upon Tyne—Sir Robert McAlpine and Sons, Ltd., 81 Jesmond Road, Newcastle upon Tyne—Sir Robert McAlpine and Sons, Ltd., 81 Jesmond Road, Newcastle upon Tyne—Sir Robert McAlpine, and Folial Robert McAlpine, a

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Witham, Hull, £20,000. Work to commence in two months.

Huntingdon and Godmanchester, Hunts.—
Erection of six unit factories for B.C.—
F. B. Thackray and Co., Ltd., St. Peters Hill Huntingdon, £26,394 (recommended).

Jarrow, Dur.—Erection of four shops and maisonnettes on the Hedworth estate for B.C. H. W. T. Perkins, borough engineer.—Direct Labour, £12,922.

Kingsbury, Middx.—Reroofing Woodfield School with Nuraphalte, for C.C.—The Weatherall Roofing Co., Ltd., Gravesend, Kent.

School with Nuraphalte, for C.C.—The Weatherall Roofing Co., Ltd., Gravesend, Kent.

Kinver, Staffs.—Improvement works at Whittington Hall Farm, Kinver, for Upper Stour Valley Main Sewerage Board, consusing of concreting and covering fold yards, and repairs and alterations to cow sheds. O. C. Rowe, engineer—Geo. Law, Ltd., Kidderminster, £6.673, and John Elwell, Ltd., Oldbury, £1,939. Work commencing December.

Lambeth.—Erection of new buildings and an office block above Lambeth North Tube Station and 112 Westminster Bridge Road, S.E.I.—Tersons, Ltd., 4 Dollis Park, London, N.3 (not Truscon, Ltd., as recently reported). Devereux and Davies, architects, 5 Gower Street, Bedford Square, London, W.C.I. Clarke, Nicholls and Marcel, consulting engineers, 21 Westbourne Grove, W.Z. H. R. Heasman and Partners, quantity surveyors, 5 Bloomsbury Square, W.C.I. Lancaster.—Provision of night nurses home at Royal Infirmary for Manchester Regional Hospital Board—Arthur O. Thoms, Queen's Square, Lancaster, £34,004 (recommended, subject to Ministry approval).

Leeds.—Erection of a new brew house, malt silo block and store at South Brook Street and Crown Point Road, for Joshua Tetley and Son, Ltd.—R. H. Thompson, Ltd., Lady Lane, Leeds, 2. John Foster, group architect, Herries Road, Sheffield, 8, and A.

Groves, staff quantity surveyor. Work commenced October 1.

Leyton, Essex.—Supplying and fixing of Weatherall Nuraphalte roofing to two blocks of flats and maisonnettes, for B.C.—Weatherall Roofing Co., Ltd., Whitehall Place, Gravesend, Kent.

Londonderry.—New clinic and alterations to existing bungalow at Kilrea for County Health Committee. W. and M. Given, architects and consulting engineers, 1 Waterside, Coleraine—Wallace Bros., Drumeene Hill, Kilrea, £2,066 (accepted); John Watson. £2,466; S. W. Gordon, £2,540; Wm. Evans and Sons, £2,895.

Long Ditton, Surrey.—Supplying and fixing of Weatherall Nuraphalte roofing to new school building at St. Mary's School, for C.C.—Weatherall Roofing Co., Ltd., Whitehall Place, Gravesend, Kent.

Lurgan, Armagh.—Construction of an extension to the United Kingdom Optical Co., Ltd., factory at Lurgan for the Ministry of Commerce. W. D. R. and R. T. Taggart engineers, 15 College Gardens, Belfast, 9-R. J. Campbell (Belfast), Ltd., Palmerston Road, Belfast.

Morpeth, Northumb.—Additions to Chantry County Secondary School for C.C. C. C. Brown, county architect—R. Anderson, Ltd., Stammore Tyne, £63,000.

Newcastle upon Tyne. — Erection of premises at the optical works of C. A. Parsons and Co., Ltd., to be used as a laboratory and production building—Stephen Easten, Ltd., Westgate Road, Newcastle upon Tyne.

Northumberland.—Following for C.C. C. C. Brown, county architect—Erection of a secondary school at Lemington—R. W. Bell and Co., Ltd., Mistletoe Road, Jesmond, Newcastle upon Tyne, £178,957; primary school at Kielder (second stage)—R. Carse and Son, Ltd., Bede Street, Amble, £19,500.

Oundle, Northants.—Erection of 12 garages at New Road, for U.D.C., comprising the provision of concrete bases, foaccourts and provision of concrete bases, foaccourts and provision of concrete bases, foaccourts and provision of concrete bases.

primary school at Kielder (second stage)—R. Carse and Son, Ltd., Bede Street, Amble, £19,500.

Oundle, Northants.—Erection of 12 garages at New Road, for U.D.C., comprising the provision of concrete bases, forecourts and road accesses, and the erection of garages utilising prefabricated concrete structural components with corrugated asbestos roofs and brick cladding to outer walls. R. E. T. Chinnery, surveyor—D. N. Wells, 1 Mayor's Walk, Peterborough £1,231 (accepted); D. J. Fletton, Ltd., £1,364; Loakes and Pertit, Ltd., £1,283; Potters (Oundle), Ltd., £1,707; J. W. Barber and Son, Ltd., £1,415; K. Church, £1,725 (work commencing Oct.).

Penrith, Cumb. — Works additions for Gush and Dent, Ltd., Gilwilly trading estate—J. H. Taylor, Sutton Road, Penrith.

Reconstruction of premises at Middlegate for Priestman and Humble—I. Armstrong, Sandgate House, Penrith.

Rotherham.—Erection of the new Eastwood Marhodist Mission Church on a site facing

strong, Sandgate House, Penrith.

Rotherham.—Erection of the new Eastwood Methodist Mission Church on a site facing St. Ann's Road.—Walter Firth, Ltd., Armthorpe Road, Armthorpe Doncaster. Estimated cost £29,000. Work commencing October 16.

Erection of factory off Sheffield Lane, Catcliffe, for G. L. Willan, Ltd. Husband and Co., architects and consulting engineers, 388 Glossop Road, Sheffield, 10—Tarmac Civil Engineering, Ltd., Upper Wortley Road, Rotherham,

Road, Rotherham.

Rotherham, Yorks. — Foundations for a new steel rolling mill at Aldwarke for Park Gate Iron and Steel Co., Ltd. Bylander, Waddell and Partners, consulting engineers, 169 Wembley Park Drive, Wembley — Turriff Construction Corporation, Ltd., Warwick (recommended).

Scunthorpe, Lines. — Erection of licensed premises at Willoughby Road, for Hewitt Bros., Ltd.—W. Eyre and Son, St. Paul's Road, Scunthorpe. Estimated cost £25,000.

Spenborough, Yorks.—Roadworks and surface water drainage, Brookfields Road, Scholes, for B.C. J. Wallbank, borough engineer—Wilson's (West Riding), Ltd., 326 Leeds Road, Thackley, Bradford. Work commencing October.

Road, Thack ing October.

ing October.

Stockton-on-Tees, Dur. — Erection of shops and store at Bishop Street for Maddox, Ltd., Silver Street, Stockton — Charles Tennet, Ltd., Church Road, Stockton-on-Tees.

Trowbridge, Wilts. — Erection of an old people's club in Trowbridge Park for the Trowbridge Rotary Club. F. R. Huggins, architect, 1 Belmont, Bath—T. W. Cash and Co., Trowbridge, £4,402 (recommended). mended).

mended).

Malthamstow, Essex.—Following for B.C.:

Annual renovations at Woodside Junior
School—Stoneley and Co., Ltd., Ilford,
£1,239; wall finishes, etc., at Sidney Chaplin
Secondary School—Thompson, Saunders
and Co., Ltd., £2,039 (recommended).

West Drayton, Middx.—Supply and fixing
Nuraphalte roofing to the new branch
library building, for C.C.—The Weatherall
Roofing Co., Ltd., Gravesend, Kent.

West Ham, Essex.—Supply and fixing of Weatherall Nuraphalte roofing for new housing project, for B.C.— Weatherall Roofing Co., Ltd., Whitehall Place, Gravesend, Kent, £8,500.

Weatherall Nuraphalte roofing for new housing project, for B.C. — Weatherall Roofing Co., Ltd., Whitehall Place, Gravesend, Kent, £8,500.

Whalley, near Blackburn, Lancs.—Provision of waiting room, etc., at Calderstones Hospital, for Manchester Regional Hospital Board—Stanley Porter, Ltd., 214 St. George's Road, Bolton, £14,232 (recommended, subject to Ministry approval).

Whitley Bay, Northumb.—Following for C.C., C. Brown, county architect—Erection of new County Grammar School—Gilbert-Ash, Ltd., 2 Stanhope Gate, London, W.I. £400,000.

Primary school at Brier Dene—Hastie D. Burton, Ltd., King Street, North Shields (provisionally accepted).

Whitton, Middx.—Erection of a new St. Edmund's Roman Catholic Church at Nelson Road—William Lacey (Hounslow), Ltd., Staines Road. Hounslow, £72,000.

The F. X. Velarde Partnership, architects, 9 Windsor Building, George Street, Liverpool, 3; Neil A. Sharrocks, quantity surveyor, 9 Windsor Building, George Street, Liverpool, 3; and Irvin and Darlison, structural engineers, 129 Telegraph Road, Heswall.

Willesden, Middx.—Following for B.C.: Alterations at Bridge Road remedial reading centre and school, general repairs and miterior washing down at Kilburn Grammar School—Bristow and Darlington, Ltd., 30 Tavistock Avenue, Perivale, Greenford, £1,386, £1,750 and £1,279, respectively (recommended).

Repairs and adaptations to 10, 34 and 46 Oxford Road—Lloyd Building Co, 2a Coleraine Road, London, N.8, £1,052, £916 and £938, respectively (recommended).

Rehabilitation of Kingsley Works—Dennis Price, Ltd., 6 Lechmere Road, London, N.W.2, £15,208; provision of garages, etc., at various sites in the borough—Associated Building Construction Developments, Ltd., 34 Alpha Road, Surbiton, Surrey, £5,866 (recommended).

Winchmore Hill, Middx.—Erection of an office building on the site of the old Capitol Cinema for Rodwell Estates, London, N.1, £1,208, provision of garages, etc., at various sites in the borough and Partners, architects, 9 Hertford Street, London, N.1, £1,208, provision of g

DEMOLITION

Bradford, Yorks.—Demolition of following for City Council: Sulphuric acid plant at Esholt sewage disposal works.—Thomas Ward, Ltd., Saville Street, Sheffield, 4, £2,475, which includes an allowance in respect of old materials; Mechanics' Institute, Thornton—Direct Labour. Estimated cost £1,500 (both recommended). Derbyshire.—Demolition of five buildings scheme (a) in the vicinity of the Nag's Head public-house at Station Road, Bolsover; also the old police station, scheme (b), for C.C.—North West Demolition Co., 161 Gigg Lane, Bury, (a) £38 and (b) £49. Work commenced.

Widnes, Lanes.—Demolition of the Widnes transporter bridge which crosses the River Mersey and the Manchester Ship Canal, for B.C. Mott, Hay and Anderson, consulting engineers, 9 Iddesleigh House, Caxton Street, London, S.W.I.—Dorman Long (Bridge and Engineering), Ltd., £139,000.

Willesden, Middx.—Demolition of air-raid shelters at Chamberlayne and Mora Schools for B.C.—J. and A. Demolition, Ltd., The Lizards, Trout Road, West Drayton, £370 (recommended).

ELECTRICAL

Dundee.—Electrical installation for the ex-tension to Stobswell Girls' Secondary School for E.C.—D. J. Macdonald, Ltd., South Street, Roque's Works, Dundee, £8,301.

South Screet, Roque's Works, Dundee, £8,301.

Edmonton, Middx.—Electrical installation for block G at Snell Park redevelopment N.18, for B.C.—Direct Labour, £1,916.

Heston and Isleworth, Middx.—Rewiring of the electrical installations and the provision of two power points in each of the 40 houses on the Warren estate, for B.C.—R. E. Wing, 36 Rookwood Avenue, New Malden, Surrey, £851 (recommended).

Lancashire.—Installation of automatic telephone system to serve the Royal Infirmary and Queen's Park Hospital, Blackburn, and the Accrington Victoria Hospital, for Manchester Regional Hospital Board—Automatic Telephone and Electric Co., Ltd.,

76 Victoria Street, Manchester, 3, £16,144 (recommended, subject to Ministry

76 Victoria Street, Manchester, 3, £10,194 (recommended, subject to Ministry approval).

Morecambe, Lancs.—Complete rewiring of Town Hall, for B.C.—W. H. Inman, Ltd., 38-40 North Road, Lancaster, £3,500. Work commenced

willesden, Middx. — Following for B.C. electrical installation and electric passenger lifts for office black at Dyne Road—Phoenix Electrical Co. (London), Ltd., 16 Marshalsea Road, London, S.E.I., £3,714, and Bennic Lifts Co., Ltd., 2 Tinworth Street, London, S.E.II, £12,017 respectively; lift installation at Kilburn Square redevelopment—Bennic Lift Co., Ltd., £10,954.

Electrical services in connection with the rehabilitation of Kingsley Works—Murryat and Place, Ltd., 40 Hatton Garden, London, E.C.I. £897 (recommended).

Electrical works at The Oaks, Donnington Road—Direct Labour (recommended). Estimated cost £8,700.

GAS AND WATER SUPPLY

Angus.—Distribution piping (Lundie Trinity) under the Loch Lee water supply scheme for C.C.—Alexander Whyte, Forfar, £14,264.

Bromyard, Heres.—Construction of Tenbury and Mathematical States of the Construction of Tenbury and Math

romyard, Heres, — Construction of Tenbury and Martley section of Bromyard district water scheme for the Herefordshire Water Board—E. R. Powell (Cmwbran), Ltd., I.C.I. Works, Victoria Street, Cwmbran, £18,549 (subject to Ministry approval).

Doncaster, Yorks.—Hatfield Chase water sup-ply scheme, contract 6, for the Don Valley Water Board. M. Cawley, engineer and manager — Ferguson Bros., 46 Hilltop , Harehills, Leeds, 8, £22,010 (recom

mended).

Dungannon, Tyrone. — Bawn-Carnteel water scheme for R.D.C., including (a) the supplying and laying of approximately eight miles of 4in. and 3in. diameter spun-iron water mains; (b) the construction of a 25,000-gallon service reservoir at Drumfad; (c) the construction of a pumping station at Killeesshill. Munce and Kennedy, engineers, 133 University Street, Belfast, 7—Henry Coary, Dungannon, £25,623 (recommended); Norwest Construction Co., Ltd., £28,919; A. F. Hastings and Co., £29,021; R. J. Pattison Nutt and Sons.

Ltd., £29,173; H. and D. Gray, £30,950; White and Co., £31,839; E. Thompson and Co., Ltd., £32,926; P. O'Neill and Co., £33,677. Work is expected to start in December.

£33,677. Work is expected to start in December.

Dungannon, Tyrone.—Regional water scheme, contract 4, for R.D.C. Munce and Kennedy, engineers, 133 University Street, Belfast, 7—H. and D. Gray. Portadown, £28,852 (accepted); Donnelly, Connolly and Fee, £29,426. Work to start in November.

Haslingden, Lancs.—Construction of sedimentation tanks, filter-house, storage reservoirs, and ancillary works for a rapid gravity filtration plant near Haslingden, to deal with 4 m.g.d. for Irwell Valley Water Board—R. and T. Howarth, Ltd., Crossfield Works, Rochdale, £135,045 (subject to Ministry approval).

Highworth, Wilts.—Construction of approximately 1,970yd. of 4in. diameter spun-iron water main, Broad Hinton to Gadbourne, together with the demolition of an existing pumping station, and incidental works, for R.D.C. F. Davenport, engineer and surveyor—A. J. Hicks and Co., Ltd., 63 Devizes Road, Swindon, £3,329. Work about to commence.

HEATING AND VENTILATING

Blackburn, Lancs.—Three Lancashire boilers associated with the scheme for the provision of a new boilerhouse and plant at Queen's Park Hospital, for Manchester Regional Hospital Board.—D. Adamson and Co., Ltd., Dukinfield, Ches., £14,499 (recommended, subject to Ministry approval).

Walthamstow, Essex.—Installation of heating and hot water at Hoe Street, stage II, for B.C.—W. C. Dearne, Ltd., £5,824 (recommended).

HOUSING SCHEMES

Aberlour, Banfls.—Following trades for 12 four-apartment and eight three-apartment houses at Allachy Aberlour, for B.C.: Mason — William Douglas and Sons. Portessie, Buckie, £15,080; carpenter—J. Cameron, Reidhaven Street, Elgin, £10,216; slater — L. Gordon, Keith-hall Road, Inverurie, £2,048; plumber—P. A. Stuart. 69 High Street, Aberlour, £2,476, and H. Cruikshank, 5 Allachy Terrace, Aberlour,

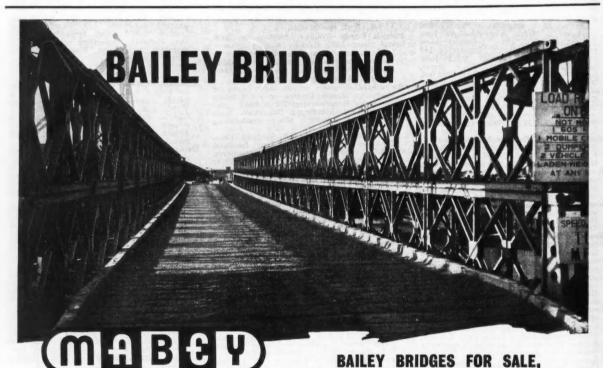
£1,712; plaster—G. Hume and Sons, 107
Land Street, Keith, £3,172; painter—H.
Reid, 143 Main Street, Buckie, £1,295;
electric—J. M. Manson, 1 Allardyce Crescent, Aberlour, £1,548; external services—
Wm. Sharp and Sons, Forres, £6,508 (work
commenced).
Amble, Northumb.—Thirty-eight Homeville
traditional houses and bungalows at
Links estate for U.D.C.—R. Carse and Son,
Ltd., Bede Street, Amble.
Bermondsey. — Sixteen terrace houses in two
two-storey blocks, six garages and 16
garden sheds at Eugenia Road site, Silwood estate for L.C.C.—Thomas Mc.
Inerney and Son, Ltd., Watford, Herts,
£61,700 (accepted): A. T. Rowley (London),
Ltd., £61,842; Prestige and Co., Ltd.,
£63,996; Kirk and Kirk, Ltd., £66,370;
T. R. Roberts (Builders), Ltd., £69,120;
Rowley Bros., Ltd., £69,434; M. J.
Gleeson (Contractors), Ltd., £69,636; W. J.
Simms, Sons and Cooke, Ltd., £70,141;
Henry Kent (Builders), Ltd., £70,144;
Hethnal Green.—Construction on Newling
Street of 72 flats in three 6-storey blocks,
six dwellings for old people in a two-storey
block, nine terrace houses and 40 maisonnettes in two four-storey blocks, together
with 19 parking spaces, for L.C.C.—Rowley
Bros., Ltd., Tower Works, Dunloe Avenue,
London, N.17, £350,858 (accepted); Rush
and Tompkins, Ltd., £356,813; Tersons, Ltd.,
£358,680; Griggs and Son., Ltd., £361,254; M.,
Gleeson (Contractors), Ltd., £362,254; M.,
Gleeson (Contractors), Ltd., £362,254; M.,
Gleeson (Contractors), Ltd., £362,259; Kirk
and Kirk, Ltd., £365,796; The Unit Construction Co., Ltd., £367,90; The Unit Construction Co., Ltd., £367,20; Wilson Lovatt
and Sons, Ltd., £369,421; W. J. Simms, Sons
and Cooke, Ltd., £373,867.

Bexhill-on-Sea, Sussex. — Twelve flats at
London Road, for B.C.—Knights (Sussex),
Ltd. Bevernbridge South Chailey, Lewer

Beshill-on-Sea, Sussex. — Twelve flats at London Road, for B.C.—Knights (Sussex), Ltd., Bevernbridge, South Chailey, Lewes (recommended, negotiated tender, subject to Ministry approval).

to Ministry approval).

Bradford, Yorks. — Following for City Council: Twenty aged persons' flatlets at Haworth Road—Direct Labour, £34,602; 268 dwellings, 108 external stores, nine shops and 63 garages on the Holme Wood housing estate—John Laing Construction, Ltd., Mill Hill, London, N.W.7, £544,377 (recommended) Ltd., Mill Hill. (recommended).



This 160' long temporary works bridge has been designed in Bailey Bridging by our Chief Engineer, Mr. D. A. Ball, A.M.I.C.E., A.M.I. Mech. E., A.M.I. Struct. E., who also supervised the building and launching to the requirement of the Engineer-in-Chief of the Mersey Docks and Harbour Board using the Board's local labour. It is of extra wide construction (15' 8" clearance), chord reinforced to carry a 42 ton NCK 605 Excavator, and with distributing beams to carry the high bearing load.

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Essington, Dur. — Nineteen houses at High Hesleden for R.D.C. R. Lumsden, surveyor —Direct Labour, £30,220 (in lieu of previous

Epping and Ongar, Essex.—Fourteen Homewille traditional houses and bungalows at Blackmore for R.D.C.—Coward Contractors, Ltd., Chelmsford.

Houghton-le-Spring, Dur.—Eighteen houses with roads and sewers at Burnside for U.D.C.—A. Veitch, surveyor—Direct Labour. Blington.—Construction on the Camden Road site of 86 flats in two 11-storey blocks, eight two-storey terrace houses, 68 maisonnetts in four four-storey blocks and eight flats for old people in a two-storey block, together with 34 tenants stores, 22 garages, 21 parking spaces, a play space and a fitted playground, for L.C.C.—Rowley Base at the siller of the store of fats for old people in a two-storey block, together with 34 tenants' stores, 22 garages, 21 parking spaces, a play space and a fitted playground, for L.C.C.—Rowley Bros., Ltd., Tower Works. Dunloe Avenue, London, N.17. £489,598 (accepted); Tersons, Ltd., £493,87; Kirk and Kirk, Ltd., £494,121; A. T. Rowley (London), Ltd., £495,621; Rush and Tompkins, Ltd., £512,544; W. J. Simms, Sons and Cooke, Ltd., £526,617; Griggs and Son, Ltd., £532,808; The Demolition and Construction Co., Ltd., £539,150; Patman and Fotheringham, Ltd., £579,211; Y. J. Lovell (London). Ltd., £584,902. The architect's comparable estimate is £494,286.

Penistone, Yorks.—Four pairs semi-detached stone-fronted bungalows at Ingbirchworth for R.D.C. Noel Heppenstall, architect, 135 Armitage Road, Milnsbridge, Huddersfield—Fred Dobson and Sons, Ltd., Hoyland Common, £12,752; Area Building Co., Ltd., £15,160; Benjaman Beevin's Sons, Ltd., Enbridge, Kent.—Nine, pairs of three-bed-

f15,160; Benjaman Beevin's Sons, Ltd., f14,450.

Ionbridge, Kent.—Nine pairs of three-bedroom houses at Mount Pleasant, Paddock Wood, for R.D.C.—Perryman (Building Contractors), Ltd., 147 High Street, Tonbridge, £39,824.

Walthamstow, Essex.—Following for B.C.: Provision of metal balustrades and asphalt paving to flooring and roofing at Tenby Road, Southgate Road and Newman Road housing developments—Page and Wilkinson, Ltd., 16a Summit Road, London, E.17, £3,051, and Pilkington Asphalte Co., Ltd., Norway Place, Commercial Road, London, E.14, £9,020, respectively; marble facings and Portland stone facings for Hoe Street redevelopment, stage II—J. W. Whitehead and Sons, Ltd., Imperial Works, Kennington Oval, London, S.E.11, £1,945, and the Stone Firms, Ltd., £2,697; tespectively; conversion of (a) 44

Montalt Road, (b) 28 Church Hill Road, and (c) 69 Havant Road into flats—(a) and (b)—Direct Labour, £5,628 and £2,515, and (c) Coulter and Reynolds, Ltd., £2,240 (recommended).

E2,240 (recommended).

Twenty bungalows and 62 garages at Sturge Avenue — Direct Labour (recommended, subject to Ministry approval). Estimated cost £64,993.

West Bromwich, Staffs.—Nine-storey block of flats at Hallam Street, St. Clements Lane. for B.C.—Wates, Ltd., 94 Hagley Road, Birmingham, 16, £88,922.

Willesden, Middx.—Following for B.C.: Subcontractors for pre-cast concrete sills and thresholds, for Cinema site at South Kilburn—Kendall's Stone and Paving Co. Ltd., Barnett Wood Lane, Leatherhead, Surrey, £2,114.

contractors for pre-tast concrete sins at thresholds, for Cinema site at South Kilburn—Kendall's Stone and Paving Co. Ltd., Barnett Wood Lane, Leatherhead, Surrey, £2,114.

Uffington Road housing site: Specialist reinforced concrete work—Hyde Reinforced Concrete Co., Ltd., St. James's Lane, London, N.W.10, £10,337; metal windows and doors—Crittall Manufacturing Co., Ltd., Manor Works, Braintree, Essex, £1,471; metal balustrading—Clark Hunt and Co., Ltd., Batemans Row, London, E.C.2, £2,101; sanitary fittings — Standard Range and Foundry Co., Ltd., Mansfield House, Strand, London, W.C.2, £1,451; doors—F. Hills and Sons, Ltd., 79 Kingsway, London, W.C.2, £912.

South Kilburn, blocks S and U: Thermoplastic tiling—Marley Tile Co., Ltd., 251 Tottenham Court Road, London, W.I., £751; doors—F, Hills and Sons, Ltd., £834.

PLANT AND MECHANICAL TRANSPORT

Bexhill-on-Sea, Sussex.—Supply of one Ford 30cwt. truck for the water department, for B.C.—Candor Motors (Braintree), Ltd., Braintree, Essex, £667 (recommended).

Bradford, Yorks.—Supply of a Marquis water tender including Coventry Climax f.w.p. pumping unit and suction equipment for City Council—Merryweather and Sons, Ltd., Greenwich High Road, London. S. F. 10, £6618.

f.w.p. puna-for City Council—Mex., Ltd., Greenwich High Road, S.E.10, £6.618. Exeter.—Supply of a Bedford fire appliance with H.C.B. Engineering, Ltd., bodywork for City Council—Reid and Lee, Ltd., New North Road, Exeter, £3,600. (recom-

Honiton, Devon.—Supply of a refuse collection vehicle for B.C.—A. P. Moor and Son, £2,919 (recommended).

Lytham St. Annes, Lancs.—Supply of a Morris 5cwt. pick-up truck for the B.C.— Brown and Mallalieu, Ltd., St. Annes Square, St. Annes.

Mansfield, Notts.—Supply of a calf dozer for B.C.—Aveling-Barford, Ltd., Grantham, £1,012 (recommended). Walthamstow, Essex.—Supply of the following for B.C.: Three refuse trailers—Dennis Bros., Ltd., Guildford, Surrey, £636; two 10-12cwt. Ford Thames vans—Wood and Lambert, Ltd., 49 Stamford Hill, London, N.16, £897, taking in part exchange two Bedford vans (recommended).

PLAYING FIELDS, PARKS, ETC.

Bradford, Yorks.—Reinstatement of Man-dale Road recreation ground for City Council—Lawrence W. Commons, Thorn Bank, Thorn Street, Nelson, £646 (recommended).

Edmonton, Middx.—Resurfacing of two tennis courts at Church Street, for B.C.— Grassphalte, Ltd., 90 High Street, Hampton Hill, Hampton, £645 (recommended).

RAILWAY ENGINEERING

Yorkshire.—Erection of a control tower for the new railway marshalling yard at Healey Mills, near Wakefield, for British Railways (North Eastern Region)—Mitchell Construction Co., Ltd., Wharf Works, Peterborough, Estimated cost £75,000. The architects are Richard Pickles and Partner, I Harrison Road, Halifax, in collaboration with the Architect, Chief Civil Engineer's Department, North Eastern Region.

ROADS, BRIDGES AND SITE WORKS

ROADS, BRIDGES AND SITE WORKS
Bedfordshire.—Following for C.C.: LondonInverness trunk road, route A.6, improvement at Wilstead, south of Cotton End
Turn—H. C. Janes, Ltd., 183 High Town
Road, Luton, £13,603; surfacing LondonEdinburgh trunk road, A.1, at Eaton
Socon, using dense bitumen macadam—
Tarmac Roadstone, Ltd., Ettingshall,
Wolverhampton, £3,173.

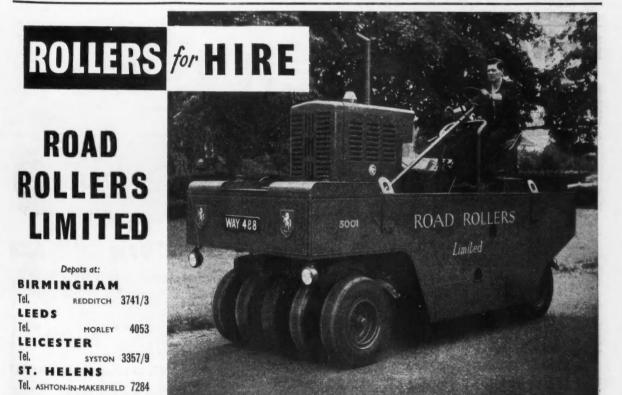
Bexhill - on - Sea, Sussex. — Making - up of
Wealden Way and Jaying of a surface water
sewer. for B.C.—G. S. Dicker (Engineers),
Ltd., 137 Hughenden Road, Hastings, £8,227
(recommended),

Bromsgrove, Worcs.—Laving garden footpaths

(recommended).

Bromsgrove, Worcs.—Laying garden footpaths with precast paving slabs on three existing housing estates for U.D.C. The extent of the work is about 1,200 super, yd.—A. J. Chadwick Paving Co., 30 Wakefield Road, Stoke on Trent, £1,009 (recommended).

Cheltenham, Glos.—Following for B.C.: Road and sewer works at The Runnings—M. Walsh and Sons, 43 Hornyold Road, Malvern, £6,240; resurfacing on one-third of



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runway 04/22 together with additional surfacing works to taxi-ways and the E/W runway. Tarmac Roadstone, Ltd., Oldbury, £5,025.

thinway. Tarillac Modasolie, Edu., Ordorly. £5,025.

Chester. — Following for City Council: Construction of a footbridge over the railway at Station View and children's playground at Allington Place—J. W. Flather, Ltd., Grosvenor Street, Ellesmere Port, £8,500 and £1,497, respectively: roadworks at Blacon Camp site—Percy Bilton, Ltd., Bilton House, Newcastle Road, Stone, Staffs., £74,451 (recommended).

Dudley, Worcs.—Improvement works at Saltwells Road, including construction of embankments, retaining walls, drainage and roaworks for B.C. —Three Counties Construction Co., Ltd., 32 Fairview Road, Penn, Wolverhampton, £11,598.

Edmonton, Middx.—Following for B.C.: Con-

Penn, Wolverhampton, £11,598.

Edmonton, Middx.—Following for B.C.: Construction of a link road and sewers and the carrying out of site works on the Montagu Road industrial estates—Direct Labour estimated cost £24,127.

Resurfacing of Silver Street from Gloucester Road to Sweet Briar Walk—General Asphalte Co., Ltd., 116 Grafton Road, London, N.W.5, £3,088 (recommended).

Sher. Surrey.—Construction of accommended.

mended).

Esher, Surrey.—Construction of car park at
King George's Hall, contract 323, for U.D.C.
—Roadways and Car Parks, Ltd., Isleworth,
Middx., £7,133.

Middx., £7,133.

Exeter.—Construction of service road, footpaths and car parks at rear of groups 20-22 Paris Street and reconstruction of Guinea Street, part of Market Street and extension of Sun Street for City Council—King's Asphalt, Ltd., 10 Bedford Street, Exeter, £5,213 and £7,228, respectively (recommended).

recommended).

Hazel Grove and Bramhall, Ches.—Making-up completion of Bramley Road (part of) and King's Close, Bramhall, for U.D.C.—Apex Asphalters, Ltd., Owen Street, Stockport, £5,257 and Nortons (Road Construction). Ltd., Sandy Lane, Whirley, Macclesfield, £4,605, respectively.

Heston and Isleworth, Middx.—Following for B.C.: Construction of roads and sewers on land at the junction of Whitton Dene and Hall Road, Isleworth—A. A. Williams (Contractors), Ltd., Keswick House, Worple Road, Isleworth £22,773 (recommended, subject to Ministry approval).

Resurfacing of Twickenham Road from Percy House to Busch Corner—Sparkes (Construction), Ltd., Ludlow Road, Feltham, £4,602 (recommended).

Holborn.—Improvement of the intersection of St. Giles's Circus, stage 1, for L.C.C.—Mowlem (Civil Engineering), Ltd., 91 Ebury

Bridge Road, London, S.W.1, £27,136 (accepted); Fitzpatrick and Son (Contractors). Ltd., £31,950; Chafen and Newman Piling, Ltd., £35,621.

Ltd., £35.621.

Leicester.—Improvement of Narborough Road by the provision of dual-carriageway between Harlaxton Street and Fullhurst Avenue for City Council.—Galliford and Sons, Ltd., The Heath, Wolvey, Hinckley, £8.880 (recommended).

Letchworth, Herts.—Footpath and Greensward contract, Grange estate, for U.D.C. E. L. Johnson, engineer and surveyor—Kelmack, Ltd., Grove Road, Hitchin, £16,707. Work commencing this month.

commencing this month.

Londonderry.—Reconstruction of about one mile and a half of road between Maghera and Fortwilliam, including the widening of the bridge over Moyola River—W. R. M'Lean and Sons, Ltd., Knockloughrim, E143,998.

Mansfield. Notes.—Private at teach with the model of the private at teach with the model.

Mansfield, Notts.—Private street works in Charnwood Grove for B.C.—Better Roads, Ltd., Nottingham Road, Alfreton, Derby. £1,004 (recommended).

Eti., Nottingham Road, Alfreton, Deroy. £1,004 (recommended).

Nottingham.—Construction of roads and sewers and provision of street lighting at Bestwood Park Estate, phase 4, for City Council—Fitzgerald Hanlon and Co., Ltd.. Premier House, St. James Street, Nottingham, £134,766 (recommended).

Reigate, Surrey.—Gatton Park Road, A.242, road improvement, Calton Road to Wray Lane, for B.C.—Kaymat, Ltd., North Heath, Horsham, Sussex, £4,229.

Ross and Cromarty.—Poolewe and Aultbeai to Gruinard Hill section, contract 28 (route A.832) for C.C. Work comprises the reconstruction of approximately 5.3 miles of road, construction of reinforced concrete culverts and a galvanised multiplate arch of 9ft. 6in. span J. Arrol, county road surveyor—The Limmer and Trinidad Lake Asphalt Co., Ltd., Trinidad House, Woodside Place, Glasgow, £152,680. Work just commenced.

Sevenoaks, Kent.—Roads and footpaths, etc.,

Sevenoaks, Kent.—Roads and footpaths, etc., at the permanent housing site, Springfield Road and Skeynes Road, Edenbridge, for R.D.C. N. W. Cole, engineer and surveyor—Crowhurst and Baily, Ltd., Sandgate, Godstone, Surrey, £2,331 (accepted); Arnold and Nathan, Ltd., £3,076; Johnson Bros. (Aylesford), Ltd., £3,113; E. Worsell, Ltd., £3,137; Hugh Brown (Engineers), Ltd., £4,233. Work commencing this month. Staffordshire.—Making-up of Thelma Avenue (length 136yd.) and the service road at Baddeley Green Lane (length 131yd.), for C.C.—Staffordshire Public Works, Co., Ltd., Victoria Works, Campbell Road, Stoke-on-Trent (work to commence end October). Sevenoaks, Kent.-Roads and footpaths,

Tipton, Staffs.—Surfacing the carriageway and footpaths of the new road on the Aston Street housing site and reconstruction of roads and footpaths on the Woodcroft estate, for B.C.—Wrekin Construction Co., Ltd., Horsehay, Salop, £1,075 and £9,386 respectively (recommended, subject to M.T., approval).

respectively (recommended, subject to M.T. approval).

Wisbech, I. of E.—Construction of roads, sewers and extension of sewerage disposal works at Gosmoor Lane, Elm, for R.D.C. R. D. Wormald, architect—John A. Brothers, Watlington, near King's Lynn, Norfolk, £23,108 (accepted); J. A. Sandover and Co., £26,002; Munton Excavations, Ltd., £28,229; W. and C. French, Ltd., £30,523; Derek tractors), Ltd., £31,239; Eames and Sons, Ltd., £33,920; D. and H. (Contractors), Ltd., £33,848.

SEWERAGE, SEWAGE AND REFUSE DISPOSAL

Banbridge, Down.—Construction of a sewerage scheme and sewage treatment works at Seapatrick for R.D.C. Hutchinson's (Tandragee), Ltd., Armagh Road, Tandragee, El8,393. Work to start in November, Easingstoke, Hants.—Extensions to sewage disposal works at Sherfield and Sherborne St. John for R.D.C.—H. N. Edwards and Partners, Ltd., 21 Brook Street, Basingstoke, £17,494.

Bexhill-on-Sea, Sussex.—Supply and installation of two pumps to replace obsoletation of two pumps to replace obsoletation, for B.C.—Wallwin (Pumps), Ltd., Saltisford, War, £1,184 (recommended, subject to Ministry approval).

Bradford, Yorks.—Drainage work at Bingley Road East recreation ground for City Council—F. Suttill (Drainage), Ltd., Burnt Yates, Harrogate, £1,380 (recommended).

Burnt Yates, Harrogate, £1,380 (recommended).

Driffield, Yorks.—Resewering scheme, North Street, Windmill Hill, Eastgate North, Bridge Street and Cranwell, for U.D.C.—Stepney Contractors, Ltd., Grove Hill, Beverley, Yorks., £6,791.

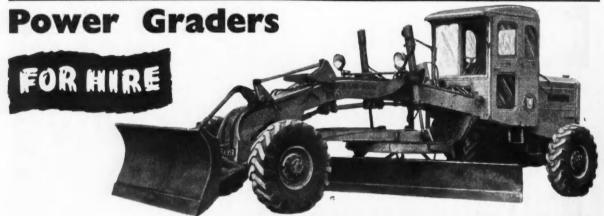
Exeter.—Preliminary works to alleviate flooding at Marsh Barton industrial estate for City Council—Direct Labour (recommended).

Estimated cost £15,000.

Frome, Som.—Construction of the Nunney sewerage scheme for R.D.C.—J. Biddiscombe and Sons, Wanstrow, near Shepton Mallet, £35,903.

Glanford, Brigg, Lincs.—Wrawby sewerage

Glanford, Brigg, Lincs,—Wrawby sewerage scheme, contract 3, for R.D.C., including the laying of approximately 5,000yd. of 4in diameter house connections in private



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lands, together with inspection chambers. John H. Haiste and Partners, consulting engineers, Belmont House, 20 Wood Lanc, Headingley, Leeds, 6—Martin O'Shea, Matlock, Derbys., £12,143 (accepted); C. E. Payne, £13,344; W. Sloyan, £13,585; M. Leyden, £15,557; T. Debney and Co., Ltd., £16,632.

Ltd., £16.632.

Linteborough, Lancs.—Construction of approximately 93 lin. yd. of 9in. diameter earthenware sewer and one brick chamber. for U.D.C. D. W. Allison, engineer and surveyor—T. Doherty, 15 Great Gates Road, Rochdale. Work commencing Nov.

Loftus, Yorks.—Extension to sewer at Easington for U.D.C.—Cumberland Field Drainage Co., Carlisle, £4.228.

ton for U.D.C.—Cumberland Field Drainage Co., Carlisle, £4.228.

New Windsor, Berks. — Clewer/Dedworth surface water sewer, for B.C., comprising the construction of approximately 692 lin. yd. of 24in. and 27in. diameter sulphate resisting spun-concrete pipe sewer, and incidental works. — Soil Engineering and Contracting Co., Ltd., Station Road, Marlow, Bucks., £8,329 (work commenced).

North Lonsdale, Lanes.—Ayside sewerage and sewage disposal scheme for R.D.C.—T. Waldron. 197 Blackpool Old Road. Poulton-le-Fylde, £5,749. Work commencing Oct. 23.

Nottingham.—Connection to the public sewer of drains serving the Bestwood 2 Junior School and provision of an access road, for City Council — Direct Labour (recommended). Estimated cost £5,000.

Ross and Cromarty—Construction of 244 miles of sewers from 18in. to 6in. diameter, together with 427 manholes and all relative works, in the Ness area of Lewis, for C.C.—J. Baxter and Sons (Contractors), Ltd., Rogie Quarry, Contin.

relative works, in the Ness area of Lewis, for C.C.—I. Baxter and Sons (Contractors), Ltd., Rogie Quarry, Contin.

Rothwell, Yorks.—Construction of the Styebank Lane main drainage scheme for U.D.C. A. D. W. Dibble, engineer and surveyor—McLauchlan (Knottingley), Ltd., Mill Top. Knottingley, £18,743. Work commencing about Oct. 16.

McLauchian (Knottingiev), Ltd., Mill 10p.
Knottingley, £18,743. Work commencing
about Oct. 16.
Willesden, Middx.—Cleansing of sewers, for
B.C.—General Descaling Co., Ltd., 22 Que-n
Anne's Gate, London, S.W.1, £2,482
(recommended).

STREET LIGHTING

Accrington, Lancs.—Conversion of lighting on Broadway to Willows Lane, for B.C.—Eleco, Ltd., Sphere Works, St. Albans, Herts., £750 (recommended, subject to M.T. approval)

GOVERNMENT CONTRACTS

Air Ministry,—Contracts to the value of £4,000 or over for the week ended Sept. 22:
Building work: Bracknell, Berks.—J. M. Jones and Sons, Ltd., Maidenhead, Berks.; Finningley, Yorks.—J. Dixon (Doncaster, Yorks.; North Front, Gibraltar — Constructors, Ltd., Cannon Lane, Gibraltar; Scampton, Lines.—Wm. Wright and Son (Lincoln), Ltd., Park Street, Lincoln; Anglesey — Seddon

(Stoke), Ltd., Fenton, Stoke-on-Trent, Staffs.; Sumburgh, Shetlands—R. Pert and Sons, Ltd., Montrose, Augus; Topcliffe, Yorks.—F. Shepherd and Son, Ltd., Richmond, Yorks.

Runway work: London (Heathrow) Airport, Hounslow, Middx.—J. Murphy and Sons, Ltd., Finsbury Park, London, N.4; Stansted, Essex—Universal Highways, Ltd., Ronfant Station, Crawley, Sussex.

Artificers' work: West Malling (Kent), etc.—H. Godsell and Son, Ltd., Maidstone, Kent; Shawbury (Salop), etc.—Whitchurch (Salop) Contractors, Ltd., Whitchurch, Salop; Church Lawford (War.), etc.—Bosworth Wakeford and Stepnell, Ltd., Rugby, War.; Hereford—J. Houston, Ltd., Painting work: Bridgnorth, Salop, Costor Steffs and Hereford, M. A. Annier

Blakemere, Hereford.

Painting work: Bridgnorth, Salop, Cosford, Staffs., and Hereford—M. A. Appleton (Contractors), Ltd., Wolverhampton; Heston, Middx., White Waltham, Berks.—William Herd and Co., Ltd., Baker Street, London, W.1; Uxbridge, Middx.—P. J. Hartel (London), Ltd., Leeland Road, London, W.13; Hemswell, Kirton Lindsey (Lincs.), etc.—J. D. Tighe and Co., Kirton Lindsey, Gainsborough, Lincs.

Ministry of Finance, Northern Ireland.—Contracts exceeding £250 in value placed during the period Aug. 28 to Sept. 15, in-

Road repairs and re-surfacing paths: Stranmillis Training College—J. McQuillan, Ltd., Glenside Quarries, Dunmurry. Erection of drill hut: U.S.C., Randals-town—J. Greer, Beechwood Avenue, Bally-castle.

castle.

Electrical installation: Radio Workshops, Lislea Drive. Belfast, 9—The Sunderland Forge and Engineering Co., Ltd., Sydenham Road, Belfast, 3.

Construction of new potato store, etc.: Loughhall Manor Estate—A. C. Simpson, Railway Street, Armagh.

Electrical installation in workshops: Pubble Forestry Centre, Tempo—S. S. Reddock, 3 Orchard Terrace, Enniskillen.

Low pressure hot water heating, etc.: Post Office, Strabane—R. Finlay, Whitehouse, Newtownabbey.

Tarmac surfacing and spraying: H.M.

ac surfacing and spraying: H.M. Armagh — B. Fletcher, Killicomain, Tarmac

Prison, Armagh — B. Fletzen.

Prison, Armagh — B. Fletzen.

Extension to low pressure hot water etc.: Post Office, Larne—R. Finlay, White-house, Newtownabbey.

Sons. Ltd., 78-82

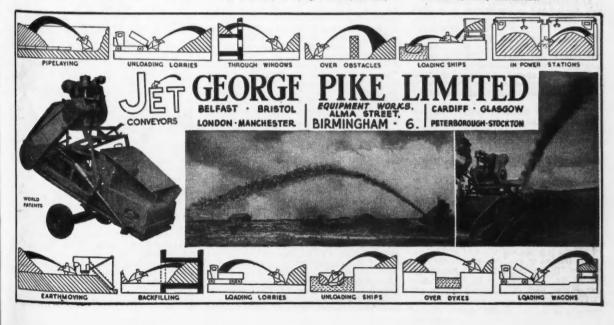
house, Newtownabbey, Electrical installation; R.U.C., Pomeroy—W. J. Gamble and Sons, Ltd., 78-82 Cromac Street, Belfast, 2.
Low pressure hot water, etc., greenhouse: Felden, Whitehouse—J. Moore, 273 Antrim Road, Newtownabbey.
Supply, etc., gates, railings, etc: Petty Sessions Courts, Belfast, 1—Hamilton, Ltd., 142-4 Cullingtree Road, Belfast, 12.
Freetion of 30 forgenen's lock-ups: Post

Erection of 30 foremen's lock-ups: Post Office, Ballarat Street, Belfast, 6— Guiney and Lee, 77 Percy Street, Belfast, 13.

Alteration and additions: Ministry of Labour and National Insurance, Corporation Street, Belfast, 1— Stewart and Partner, Ltd., 1-11 Elgin Street, Belfast, 7.

Alterations to accommodation, etc.:
R.U.C., Newcastle—J. S. McCullough and
Sons, Ballymartin, Newry.
Low pressure hot water heating, etc.:
R.U.C. County Headquarters, Omagh—
Brightside Heating and Engineering Co.,
Ltd., 36-40 Victoria Square, Belfast, 1.
Ministry of Works.—Contracts placed for
week ended Sept. 16:
Buckinghamshire: Rocket Propulsion
Establishment, Westcott—water mains—
J. B. Edwards and Co., Ltd., Kenley House,
Kenley Lane. Kenley, Surrey.
Hampshire: Government Offices, 8
Ogle Road, Southampton — occupational
services—Brazier and Son, Ltd., 303-305
Portwood Road, Southampton.
Lancashire: Liverpool North Automatic
Telephone Exchange, Limekiln Lane, Liverpool — extension — David Lesley (Contractors), Ltd., 9 Chapel Walks, South
Castle Street, Liverpool, 1.
London: Lansdowne House, Berkeley
Square, W.1—interior cleaning and decorations—Architectural Decorators, Ltd., 79
Eccleston Square, S.W.1.
Middlesex: National Physical Laboratory, Teddington — heat transfer tunnel—
Foster Yates and Thom, Ltd., P.O. Box 21,
Canal Work, Blackburn, Lancs.
Northumberland: building 2. Longbenton, Newcastle—alterations—Tate and
Holmes, Ltd., Benwell Village, Newcastle
upon Tyne, 5.
Somerset: Admiralty, Foxhill, Bath—provision and erection of prefabricated building—F. Pratten and Co., Ltd., Midsomer
Norton, near Bath.
Post Office.—Contracts for duct laying, etc.,
works to the value of £4,000 and over
placed during the two weeks ended
Sept. 23:
The Baillie Contracting Co., Ltd., 2061
Coventry Road, Sheldon, Birmingham, 26;
Bowzell, Ltd., Wellington House, Dover
Road, Walmer, Deal, Kent; C. D. L. Construction Co., Ltd., Church Road, Egham,
Surrey; P. Cusack and Co., 52 Parkside
Way, North Harrow, Middx.; M. McIntyre,
109 Bath Street, Ilkeston, Derbys, The
McNicholas Construction Co., Ltd., 21therland, Liverpool, 21; P. J. Parrott and Co.,
Ltd., Main Street, Methley, Leeds, Yorks.;
John T. Pickard (Harrogate), Ltd., Litherland, Liverpool, 21; P. J. Parrott and
Co., Ltd., Maidstone;
Verland, Lither, Lt

Kent (Chatham and Maidstone area): electrical—H. T. Barden, Ltd., Maidstone: (Isle of Grain): roadwork—A. H. Hooker and Sons, Ltd., Maidstone.



BARGE-LOADING GRAVEL PLANT STARTS **OPERATING IN ESSEX**

NEW barge-loading plant has A recently been completed by Frederick Parker, Ltd., of Leicester, for Brightlingsea Aggregates, Ltd., at St. Osyth, two miles upstream from Brightlingsea in Essex.

The plant has been specially designed for producing and loading concrete aggregates into barges. The whole concept of storage facilities is based on the assumption that three 250-ton barges have to be loaded per tide, or 1,200 cu. yd. per 24 hours. 24 hours.

At the same time the plant is capable dealing with local trade and loading cilities have been incorporated for facilities

Sand and gravel is conveyed 700yd, to the plant by dumpers, of 8 cu. yd. capacity,

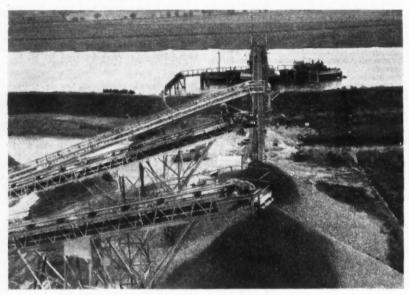
passed to a 24in. wide Sandor with 30ft. centres where it is discharged on to a 20in. wide stockpile conveyor 97ft. 6in. long.

From the vibrating screen the — 1½in. + 36in. passes to a No. 10 Controflow washer, again the largest produced by Parkers and discharged to their latest horizontal screen, a double deck 16ft. x 5ft. Powerflow where the stone is separated into three sizes and stockpiled by means of three conveyors dealing with 1in. 3in. and 1½in.

\$\frac{1}{8}\text{in. }\frac{1}{3}\text{in. }\text{and } 1\frac{1}{2}\text{in. }\text{Both the \$\frac{1}{8}\text{in. }\text{and } 1\frac{1}{2}\text{in. }\text{conveyors are } 16\text{in. wide with } 110\text{ft. }\text{centres while the \$\frac{1}{2}\text{in. }\text{in. }\text{in. }\text{wide with } 102\text{ft. }\text{6in. }\text{centres.}

Conveyor Belt

All four stockpiling conveyors discharge over an 8ft. diameter Armco tunnel, 100yd. long, which houses a nylon ply



Part of the plant, showing the barge-loading operation

where it is discharged into a 20 cu, yd. feed hopper fitted with a grid.

Vibrating Screen

The material falls on to a 42in. wide belt feeder and is discharged to a 24in. wide inclined conveyor running at 250ft. a minute. Then it enters a three-deck vibrating screen which removes the oversize for breaking down in a No. 3 Kubit. The screen also takes out the fine aggregate fractions for classifying.

The sand is passed to a 15ft. long sand splitting tank designed by Mr. R. S. Massey, general manager, and made by Parkers.

By means of adjustable valves the fine sand is removed and the required grade

conveyor belt manufactured by the BTR Co. This conveyor with 450ft, centres has a 24in, wide belt running at the rate of 300ft, a minute.

The selected grade of material is fed to the belt by electro-pneumatically operated doors and thereby conveyed to a barge-loading conveyor capable of rotation, extension and retraction which feeds the material into the holds of 250-ton barges.

The whole selecting and loading opera-tion is controlled by one man from a cabin on the barge-loading conveyor. By pressing buttons he can select the right grade of material, keep it flowing and manoeuvre the huge barge-loading structure to various points over the barge.

OPEN TYPE CONCRETE FENCING

A new range of concrete fencing has been introduced by Sectional Concrete Buildings, Ltd., Station Works, Fenny Compton, near Leamington Spa, War. It is of the open type and no bolting is required, posts being slotted to take panel and frame. Posts are set 18in. in the

The fencing is available in sections 4ft, wide by 5ft. 5in. tall, with posts measuring 4in. by 4in. The price is £4 12s. for the first section, with all additional sections at

BACKFILL BLADE FOR PARSONS 77 TRENCHLINER

PARSONS 77 TRENCHLINER
A new backfill blade for the Parsons model 77 Trenchliner has been announced by the Parsons Co., Newton, Iowa, For use on small backfilling jobs and to grade ahead of the machine, it is 60in, wide, 25in, high, and is double acting through hydraulic cylinders. In raised position, the blade has 12in, of ground clearance.

It is attached to the 77 with four pins—two in the crawler frame and two in the main frame—and can be detached in 15 minutes. A removable cutting edge of 12in, thick steel connected to the blade with seven bolts.

SCAMMELL INTRODUCE "FOURTRAK" SEMI-TRAILER

A NEW design semi-trailer for 15-ton loads has just been introduced by Scammell Lorries, Ltd. Named the "Fourtrak", it is available in lengths of up to 26ft. and makes use of two short independently oscillating axles located side by side.

The twin axles are mounted transversely The twin axles are mounted transversely in line, each pair of wheels being mounted on single rate leaf springs. The Scammell running gear of the "Fourtrak" needs no lubrication. Tyres are 10.00-20 16-ply. The frame is of all welded construction and follows the current practice of using pressed steel channel section side members, which in this case are 15in, by 34in by which in this case are 15in, by 3fin, by fin, at the main section, pressed steel channel section outriggers are welded to the sidemembers.

The flat platform body of the semi-trailer is 7ft. 6in, wide and has 5in, by 1\frac{1}{2}in, wood filled channel pressings, with its front and side sills welded to the outriggers and a 5in. by 2\frac{1}{2}in, channel rear crossmember. The cross boarded floor is of 1\frac{1}{2}in, thick softwood.

Single line vacuum operated 154in. by Alin, brakes are employed on all four wheels with a parking brake provided for hand operation. A two line air pressure braking system can be supplied at extra

The front end of the "Fourtrak" is fitted with a SAE-SMMT fifth wheel coupling with a 2in. diameter kingpin, but it can also be fitted with Scammell light automatic coupling gear. Also at the front end is a vertical screw type landing gear of light-weight design for supporting the semi-trailer when were very left.

light-weight design for supporting the semi-trailer when uncoupled.

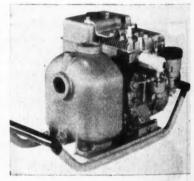
Listed as standard equipment are steel mudguards, two combined stop-tail lamps and reflectors, and a Niphan socket for electrical connections to the tractor.

5,000 G.P.H. SELF-PRIMING PUMP

Precision Electrical Products (Stockport), Ltd., Progress Works, Lytham Street, Cale Green, Stockport, have extended their range of Pep-Loewe centrifugal pumps by the addition of the Pomona, a general purpose self-priming unit.

Available with either a four-stroke petrological expectations of the progress of these acceptances.

ranging from 5,000 gallons an hour against a head of 10ft. to 660 gallons an hour against a head of 89ft. The self priming capacity amounts to a 23ft. suction lift and



Pomona self-priming unit

once the pump casing has been initially

The Pomona is fitted with a semi-enclosed impeller which is unaffected by mud or sand and pumping can be carried out with solid particles in the water of up

out with solid particles in the water to in diameter.

The complete set is mounted on a light-weight tubular frame, the total weight of the set being 66lb. The price with petrol engine is £43 15s., and with three-phase electric motor, £42 15s.

BOWMAKER OPEN NEW PLANT DEPOT AT CARDIFF

Further Stage in Expansion Scheme

AT Culverhouse Cross in Cardiff last week the Lord Mayor, Alderman E. Ewart Pearce, officially opened a new depot for the South Wales Branch of Bowmaker (Plant), Ltd.

Bowmaker (Plant), Ltd.

The depot, which is a further stage in the company's expansion scheme, is situated on the western city boundary, adjacent to the main A.48 highway.

The site was purchased with the steelwork of an ex-R.A.F. hangar erected, as its previous owner had intended to develop the site himself. As the height of the hangar was considerably more than required, consideration was given to replacing it with a new structure. But

new structure. But this would have But proved uneconomical and it was decided to alter the hangar to suit the company's purposes.

So as to reduce the cubic capacity to be heated, a suspended ceiling was provided down the centre of the building, but sloping up to the roof to permit natural lighting.

The front two trusses of the hangar were moved and reerected at the rear of the building to make way for a new two-storey office block. Extensive alterations had also to be made to the steelwork to permit the installation of overhead gantry cranes.

ity

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up

Brickwork is to a height of about 7ft. 6in. above the floor, and the sides and 7st. 6in. above the floor, and the sides and roof are clad with insulated aluminium sheeting with large areas of translucent sheeting incorporated. The floor finishes in both Service Area and Stores are of high grade concrete with a comparatively rough finish to stand up to the hard wear they are subjected to from the tracked whiches

The Service Department consists of an shaped workshop of some 20,250 L-shaped workshop

sq. ft. and the whole of the floor area is sq. it, and the whole of the hoof area is serviced with gantry cranes and numerous jib-cranes. Provision has been made for the installation of special equipment such as dynamometers, fuse arc welding plant, track presses, and fuel injection testing equipment, all in addition to normal machine tools.

machine tools.

Stores consist of open floor space for some 7,500 sq. ft., issue counters serving the Service Department and a counter for customers' use.

The office block of 6,800 sq. ft. is a

steel frame, concrete encased structure with canopy. Apart from the canteen and toilets, all the partitions are demountable and



A section of the workshop

were fabricated on the site by the contractor in Sapele-faced chipboard and

glazing above dado height.

Aluminium curtain walling was used for the main entrace hall, and all the other windows of the office block are of timber construction.

Branch Activities

The new South Wales Branch deals with all types of Caterpillar equipment. The activities can be classified under three main headings—sale of new and recon-

ditioned plant, servicing of customer's plant and sale of spare parts.

Earthmoving equipment can be exhibited in the open air so that no showroom is necessary, but a canopy facing the main Cowbridge Road, together with paved areas around the office block, are intended for display areas.

The darget is surrounded by a large

The depot is surrounded by a large area of paved surface for the parking and storage of new and reconditioned equip-

Architects and Contractors

Architects for the new depot were T. Alwyn Lloyd and Gordon, F./A.R.I.B.A., and the quantity surveyor was L. C. Patterson of W. T. Seaton and Co., F./A.R.I.C.S. The consulting engineers were Felix J. Samuely and Partners, and the heating and electrical consultants were M. McCann and Partners. The main contractors were L. J. Hope, Ltd.

LATEST 3-MW, POWER GENERATION EQUIPMENT

An advanced type of electricity generating equipment—a development of the transportable 3 Megawatt "pocket power station on wheels", plans for which were announced earlier this year by Bristol Siddeley—is being produced at the company's Ansty plant, near Coventry.

The complete generating unit—gas turbine power plant, generator and controls—is now housed in a single 3 Megawatt "power package", which can be transported by road on a single semi-trailer, by rail on a flat car, or it can be lowered on to any level firm site for stationary use, without specially prepared foundations or buildings. Previously, separate units were used for generation and control.

SEALED SPIRAL CONDUIT **TECHNIOUE**

An advance from the metal to metal lock-joint of spiral conduit has been made by Metal Sections Ltd., Oldbury, who have devised a new technique of incorporating a rubber mastic sealing compound into the lock-joint as it is being formed.

It is claimed that the sealing compound—3 M's EC750C—provides an airtight tube, preserves the lock-joint from rough treatment during transit and on site and allows for expansion and contraction of the joint caused by temperature variations within an airr-conditioning system.

air-conditioning system.

Metal Sections state that they have successfully carried out leakage tests on the new tube up to a static internal pressure of 15lb. per square inch and that their "Helitube" is being marketed with this leak-proof assurance. leak-proof assurance.

NEW CONCRETE ADDITIVE

NEW CONCRETE ADDITIVE

A new liquid additive which is said to give workability characteristics to concrete has been produced by Quickset Water Sealers, Ltd., 20 Albert Embankment, London, S.E.I. and is now being marketed under the name Flocrete.

The additive allows a reduction to be made in water content during mixing and at the same time plasticises the concrete to a uniform quality.

It is claimed that with the use of this plasticiser the designed strength of a structure can be achieved with a cement content up to 20 per cent. lower than specified, the compressive strength of hardened concrete can be increased by up to 25 per cent, and its bond strength by up to 20 per cent. per cent.

SPECIAL CORNER GUARD

Huntley and Sparks, Ltd., James Estate, Western Road, Mitcham, Surrey, have introduced a special corner guard suitable for building into brickwork. The guard will augment the range of "Rigifix" column guards already offered for use in concrete



Front elevation of the depot

NEW COMPANIES

The undermentioned particulars of new companies recently registered are taken from the daily register compiled by Jordan and Sons, Ltd., company registration agents, 116 Chancery Lane, London, W.C.2:—

agents, 116 Chancery Lane, London, W.C.2:—
Jones and Sharpin (Builders), Ltd., 146
Oxford Street, W.I. £100. Directors: Fredk. F. Jones, 59 Boundary Road, Ramsgate, Kent; William H. Sharpin, 69 Boundary Road, Ramsgate, Kent. Mechadig Ltd., 1434 London Road, S.W.16, excavation, demolition and agriculrural engineers, etc. £100. Directors: Donald C. Wooders and Mrs. B. P. Wooders, 51 Woodmansterne Lane, Wallington, Surrey. Williamson (Kingsbury), Ltd., 10 Eton Grove, Kingsbury, N.W.9; haulage and plant hire contractors. £100. Directors: Cyril W. Williamson, 10 Eton Grove, Kingsbury, N.W.9; Henry Shailer, 19 Malden House, Oxhey Drive, Oxhey Estate, Carpenders Park, Herts.
E. W. H. Gifford and Co., Ltd. To provide E. W. H. Gifford and Partners carrying on the practice of consulting engineers at Southampton or any associated firm with all services required for the conduct of its business, etc. £100. Directors: Edwin W. H. Gifford, John R. Lowe and Hugh E. Lewis, Southampton.
Reconstruction (Cambridge). Ltd. The

Gifford, John R. Jodge, Carron.

all of Carlton Lodge, Carron.

Southampton.

Reconstruction (Cambridge), Ltd. The Close, Little Shelford, Cambs., builders.

£100. Directors: Richard J. Fletcher and Patricia A. Fletcher, The Close, Little Shelford, Cambs.; Cyril Hanson, 24 High Street, Milton, Cambs.

Tuddenhams (Longtown), Ltd., 25 Bridge Street, Longtown, Cumberland, builders.

£10,000. Directors: John Tuddenham, 25 Bridge Street, Longtown; John W. Tuddenham, 2 Stack Brae Road, Longtown; Allan E. Tuddenham, Netherby Street, Longtown.

C. F. Palmer (Contractors), Ltd., 7 St.

E. Juddennam, Netnerby Street, Longtown, C. F. Palmer (Contractors), Ltd., 7 St. Johns Hill, Clapham Junction, S.W.11, builders. £500. Directors: Cyril F. Palmer and Mrs. Minnie P. Palmer, 129a Devonshire Avenue, Sheerwater, Woking,

Devonshire Avenue, Sheerwater, Woking, Surrey.

Caterham Construction Co., Ltd., building and constructional engineers, £100. Directors: Henry M. Smith, 74 Foxon Lane, Caterham, Surrey; Frederick T. Bowers, 1 Church Hill, Caterham; Alan M. Dowson.

G. M. Allenby, Ltd., Clifton Street, Hull, builders. £2,000. Directors: George M. Allenby, 57 Clifton Street, Hull; Bisie Allenby, 57 Clifton Street, Hull; Elsie Allenby and Barbara J. Grayson.

Crownhill Construction Co., Ltd. Newlands, The Drive, Wembley, Middx., builders. £1,000. Directors: Sidney Newton and Edith Newton, Newlands, 21 The Drive, Wembley; Denis J. Henwood, 8 Rossdale Drive, Kingsbury, N.W.9: Stanley A. Dodd, 8 Priory Hill, Wembley.

Courtfield Construction Co., Ltd., 15 Railway Road, Ormskirk, builders. £1,000.

Directors: Alan Ingham, 29 Greystock Avenue, Fulwood, Preston; Edward Jackson, Hillcrest, Prescot Road, Ormskirk; Wilfred Dickinson, Cyril Webb and John S. Hilton. Lucas Developments (Godalming), Ltd., 4 Wharf Street, Godalming, Surrey, builders. £2,000. Directors: Stephan F. Lucast and Mrs. Pamela M. Lucas, New Dawn, Gasdon Lane, Witley, Surrey; Henry C. Lucas, address not stated.

Lane, Witley, Surrey; Henry C. Lucas, address not stated.

J. Mason (Builders), Ltd., 9 Liverpool Gardens, Worthing. £1,000. Directors: Joseph Mason and Rose Mason, 41 Loxwood Avenue, Worthing.

F. and E. Portlan, Ltd., 4 Green Lane, Higher Poynton, Cheshire. Civil engineers, etc. £100. Permanent directors: Eric C. Porter, 4 Green Lane, Higher Poynton, Francis Lavin, 3 Sylvester Avenue, Heaviley, Stockport.

Gaydec (Essex), Ltd., 128 Rayleigh Road, Eastwood, Essex, builders, £1,000. Directors: Peter D. Britton, 40 Queens Road, Rayleigh. Anthony F. Bache, 102 Warwick Road, Rayleigh.

Anthony F. Bache, 102 Warwick Road, Rayleigh.

M. F. Construction Co., Ltd., 17 New Kings Road, S.W.6, builders. £100. Directors: William Grant, 17 New Kings Road, S.W.6. Sidney A. Jenner, 78 Flat 2, Dabbs Hill Lane, Northolt. Lawrence Larkin and Patrick Burke. G. E. Turner (Builders), Ltd., 210 Stourbridge Road, Kidderminster, Worcester. £3,000. Directors: George E. Turner and Mrs. E. F. Turner, 210 Stourbridge Road, Kidderminster, Worcester. Graham D. Binnion, 24 Clent Avenue, Kidderminster, Worcester.

J. S. Lupton and Sons, Ltd., builders, £2,000. Directors: Joseph S. Lupton and Mrs. Lydia M. Lupton, 15 Lytham Road, Freckleton, near Preston.

M. Lupton, 19 Preston.

Mauray Developments, Ltd., Bel Fiori, Perranporth, Cornwall, builders. £100, Directors:
Maurice S. Horne, Bel Fiori, Perranporth.
Raymond H. Ongley, Kismet, Trevellas, St.

Raymond H. Ungiey, Kishiet, A. L. Albany Agnes.

Byrne and Blakemore, Ltd., 14 Albany Road, Coventry, builders. £2,000. Directors: to be appointed by subscribers. Subscribers: Gerald Byrne, 47 Finham Green Road, Coventry. Derek A. Blakemore, 16a Hockley Lane, Eastern Green, Coventry.

Stirland-Bond (Construction), Ltd., Llandaff Chambers, Regent Street, Cambridge, builders. £1,000. Directors: to be appointed by subscribers. Subscribers: Stanley J. Green, Bridge Buildings, Wisbech (soliciter). Philip C. Butler, M.B.E., St. Catharines Cottage, Coton, Cambridge.

ler, M.B.E., St. Catharines Cottage, Coton, Cambridge.
George W. Greenwood and Son, Ltd., builders. £1,000. Directors: George W. Greenwood and Annie Greenwood, 150 Hightown Road, Liversedge, Yorks.
Mixconcrete (Curtis), Ltd., Botley Works, Oxford, manufacturers of and dealers in and workers in cement, concrete, etc. £35,000. Directors: Hubert J. Curtis, The Farm House, Cutts End, Cumnor. Geoffrey J. Wilsdon, Cotswold House, Cumnor Hill, Oxford, George Barrett, John H. Mackaness, Frederick C. G. Hill and Griffith M. Thompson.

TRADE NEWS IN BRIEF

George Pike, Ltd., announce that their new London address is Equipment Works, Galleymead Road, Colnbrook, near Slough, Bucks, (tel.: Colnbrook 2362-3). Their Stockton address has also been changed from Quayside to York Street.

New trade literature on their fan convectors has been produced by Copperad, Ltd., Colnbrook, Slough, Bucks.

Singlehurst Engineering, Ltd., have moved to larger premises at 72-76 Clun Street, Sheffield, 4. Tel.: Sheffield 29919.

The Ka-Mo G-160, a petrol-powered boring unit, is the subject of a new pamphlet issued by the Kwik-Mix Co., Port Washington, Wis, U.S.A., a division of Koehring Co. The G-160 boring range varies from 200ft. of 12in. diameter hole to 150ft. of 36in. hole on the horizontal or at angles up to 30 degrees from the horizontal or at angles up to 30 degrees from the horizontal or at angles up to 30 degrees from the horizontal or at angles up to 30 degrees from the horizontal.

Copies of a new leaflet dealing with the properties and applications of Seel sprayed asbestos are available from Chancery Insulations, Ltd., members of the U.A.M. Group of Companies, 8 Upper Grosvenor Street, London, W.I.

Companies, 8 Upper Grosvenor Street, London, W.I.

A new publication has been issued by E.C.D., Ltd., Tonbridge, Kent, one of the Wallace and Tiernan Group of Companies, describing their new G.50 proportioning pump. A leaflet describing their Epilon system of constructing chemically resistant joints to spigot and socket pipes carrying corrosive tiquors has been published by F. Haworth (A.R.C.), Ltd., 40 Buckingham Palace Road, London, S.W.I.

"Pumping" is the title of a new 12-page illustrated brochure now available from Parkinson Cowan Measurement, Tameside Works, Dobcross, Oldham. The second of a series of three, it outlines the construction of the range of Rotoplunge pumps.

Bowmaker, Ltd., have opened new offices at 5 Wynnstay Road, Colwyn Bay (Tel.: Colwyn Bay 2628), at 10 Pierpoint Street, Worcester (Tel.: Worcester 24334/5/6), and at Lloyds Bank Chambers, 4 Earl Street, The Moor, Sheffield (Tel.: Sheffield 77404/5).

Leca (Great Britain), Ltd., Buckhurst Hill, Essex, have issued a new pamphlet describing the light insulating building blocks made with their aggregate.

Output from the Lackenby Universal Beam

Essex, have issued a new pamphiet describing the light insulating building blocks made with their aggregate.

Output from the Lackenby Universal Beam Mill of Dorman Long (Steel) Ltd., which began commercial production in July, 1958, now exceeds 1,000,000 tons.

Copperad, Ltd., announce that as fron October 1 the name of their associate company, Manwood Miller Fans and Filters, Ltd., will be changed to Copperad Air Conditioning, Ltd. Ideal Boilers and Radiators Ltd., have changed their name to Ideal-Standard Ltd. London Mosaics Ltd., have changed their address to 150 West End Lane, N.W.6. Tel: Maida Vale 9375/6.

"Silicones In Engineering" is the title of a new 24-page booklet received from Midland Silicones Ltd., 68 Knightsbridge, London, S.W.1.

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United Dominions Trust's branch office in United Dominions Trust's branch office in Lincoln will move to new premises in Thorn-gate, St. Swithin's Square, on October 2. The new address of Bromley Demolition Co., Ltd., is 137 Gravel Road, Bromley, Kent. Tel: Farnborough 55795.

COMPANY RESULTS

Winget, Ltd. — Group profits for the year ended March 31, 1961, £308,941 (£268,688). Net profit after tax, etc., £153,755 (£136,765). Final dividend 7½ per cent., making a total of 12½ per cent. on a capital increased by a 50 per cent. rights issue.

Steel and Co., Ltd.—Group profit for the year ended March 26, 1961, £1,276,471 (£720,627). Net profit after tax, £629,995 (£331,537). Final dividend 12½ per cent. on a capital increased by a one-for-six rights issue (10 per cent.). The interim was 10 per cent.

(10 per cent.). The interim was 10 per cent (same).

Montague L. Meyer Ltd.—Group profit for year ended March 31, 1961, £621,525 (£530,665). Net profit £325,835 (£261,052). Less tax dividend 12½ per cent. (10 per cent., not subject to tax. as before.

Eastwoods Ltd.—Group trading profit for year ended March 31, 1961, £1,693,741 (£1,459,235). Net profit £686,170 (£501,336). Dividend 20 per cent. (17½ per cent.).

Acrow (Engineers), Ltd.—Consolidated trading profit for the year ended March 31, 1961, £774,310 (£699,312). Net profit after tax, £297,533 (£303,461). Final dividend 12½ per cent., making a total of 50 per cent. The total includes a 2½ per cent. anniversary bonus with the third quarterly dividend and compares with the previous equivalent of 43,18 per cent., taking a one-for-ten scrip issue into account.



The first International B8K3 Drott to be bought in the Birmingham area was recently handed over to Bowyer Plant Hire and Transport, Ltd. In the photograph, Mr. W. P. Lumley, director, Saville Tractors, is handing over the machine to Mr. Bloomer, Bowyer's plant manager

LIFT SLAB METHOD EMPLOYED ON POOLE GROWING NUMBER OF FLATS WAREHOUSE CONTRACT

DURING the next few weeks the first, second and third floors of a large four-storey warehouse and office block, now being erected at Poole, Dorset, for the Laboratory Chemicals Division of The British Drug Houses, Ltd., are to be raised from the ground hydraulically by the Lift Slab method of construction.

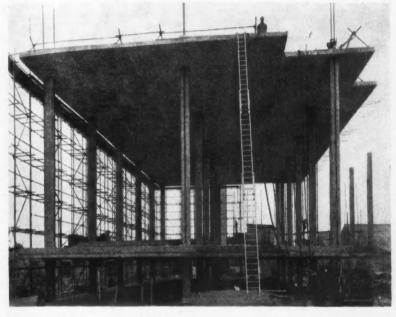
Work on the new building, which is 340ft, long and over 100ft, wide, began in March this year as the third and final stage

a £1m. development programme.
The building has been divided into four

automatic equipment. Each hydraulic jack has a maximum working capacity of 70 tons and the equipment is so designed that all units work together.

Jacks are mounted on the top of the columns with rode running down, which

columns with rods running down, which are connected first to the third floor slab. are connected first to the third floor slab. A reciprocating action causes the rods to be raised and passed through the body of the jacks, thus raising the top slab and subsequently the lower floor slabs, to their final positions. The type of connection used is of the combined shear block and wedge design. Inserts are provided in the



Part of the building. Roof and floor slabs have been cast in situ at ground level and are being raised in sections by the Lift Slab method—using hydraulic jacks mounted on top of the precast concrete columns

sections, each including up to 24 precast concrete columns, 16in. square and 38½ft. high. Reinforced concrete roof and floor slabs, 9in. and 10in, deep, with a separating medium of resin dissolved in a volatile spirit, have been cast at ground level round the columns and are being raised at the rate of some 8ft. an hour. Each section is to be completely lifted and connected within one week.

British Lift Slab, Ltd., who are carrying out the lifting operation, are using Mark 9

reinforced concrete columns at each floor level, to which the wedges and shear blocks are attached, the collar of each slab resting on the wedges and shear blocks.

resting on the wedges and snear blocks. The whole connection is later encased to give the necessary degree of fire protection.

The architect for the project is Sydney Greenwood, A.R.I.B.A., and the office of the Chief Civil Engineer of John Laing and Son, Ltd., the main contractors, has been responsible for the civil, mechanical and aleatical degian. electrical design.

CHANNEL BRIDGE DISCUSSIONS

M. Jules Moch, the former French Public M. Jules Moch, the former French Public Works Minister, is expected in London this week for informal talks with the Minister of Transport and the Chancellor of the Exequer concerning the proposal for a Channel Bridge, between Calais and Dover. It is expected that a British study group will be formed following the talks.

In Paris recently M. Moch said that he thought a bridge was the best solution to the Channel link problem. French maritime interests, which had been consulted.

time interests, which had been consulted, largely agreed that the 164 piles on which the proposed bridge would rest could serve to regulate shipping in the Channel. A bridge would take about six years to build and would cost 2,900 million francs. Funds to finance the project would be raised by private investment through the issue of

Three companies have already prepared rinee companies have already propared engineering drawings for a cross-Channel bidge. They are Dorman Long, Ltd., Middlesbrough, Compagnie Francaise d'Entrepises, and Merrit-Chapman and Scott Corporation of the U.S.

STUDENTS' VILLAGE DESIGN COMPETITION

A first prize of £5,000 is being offered in a competition, open to all architects on the British register, for the design of a campus and students' village at Mossley Hill, for Liverpool University.

Other prizes will be £3,000 for second, possibly £1,000 for third, and merit prizes of up to £500 each.

The village will comprise five or six halls of residence for about 1,200 students, flats and homes for married members of the staff and some graduates, shops, library, coffee bar, and recreational facilities. Construction work is expected to start in 1964 and the scheme is estimated to cost about

The competition assessors will be Sir James Mountford, vice-chancellor of the university, Mr. Donald E. Gibson, directorof works at the War Office, and general Prof. Myles Wright, professor of civic design and planning consultant to the uni-

DEPLORED

N his presidential address at the Institute of Housing annual conference held in Eastbourne recently, Mr. R. J. Allerton, said that the increasing proportion of flat dwellings was one of proportion of flat dwellings was one of the most unfortunate housing trends of the last forty years. Another was the virtual disappearance of the parlour-type house, a feature of the housing pro-gramme of the 1920's. Mr. Allerton, who is London County Council's director of housing added: "I do not deny the need for flats in some places, but I still believe that the great majority of tenants prefer houses with a small garden

but I still believe that the great majority of tenants prefer houses with a small garden or even a private yard.

"If the wide open standard of some of our cottage estates results in too few people being housed in this way then perhaps the standard should be looked at again and the estates may benefit from being more closely knit than they are now."

The president said the much derided

arlour-type speculative terrace dwellings, with a small yard or garden of the pre-1919 era, had much to offer a family, which they were denied in the well-fitted, easily-run, hygienic, but restrictive flat of

easily-run, hygienic, but restrictive hat of today.

There was nothing in the Ministry's regulations which prevented the building of such houses, but generally local authorities built the smallest house which could be made to contain rooms of the prescribed minimum sizes.

"No doubt this has been dictated by financial considerations, but nevertheless I regret it," said Mr. Allerton. "If flats there must be then they should be more suited to family requirements."

Housing Societies Commended

Housing Societies Commended

Opening the annual conference, Dame Evelyn Sharp, permanent secretary, Ministry of Housing and Local Government, commended the idea of housing societies and associations. She also urged local authorities to prepare plans for the redevelopment of obsolete areas in their towns. towns.

Dame Evelyn believed that there was a big future for the housing association movement, not only in building new houses but in the management and improvement of existing rented houses. The system of private ownership of rented houses had changed radically since the turn of the century. House management and improvement required great skill and attention, and where houses were held in small parcels—sometimes by owners who were neither knowledgeable nor perhaps interested—it was obviously impossible to obtain these needs.

"I cannot help feeling that, where rented houses are not municipally owned, this must be done in a way which enables really skilled management to be brought

really skilled management to be brought to bear," she added.

CUBITTS AWARDED £125,000 HOSPITAL CONTRACT

Work will start shortly on a £125,000 contract awarded to Holland & Hannen and Cubitts (Great Britain), Ltd., for the construction of the Nuffield Hearing and Speech Centre adjoining the Royal National Throat, Nose and Ear Hospital, Gray's Inn Road, W.C.1. Also in the contract is the building of a Central Syringe and Glove Service and Speech Therapy Department in the same block as the Hearing and Speech Centre.

Standing on a site until recently occupied by seven houses, the new building will be framed in reinforced concrete and clad in Dorking facing bricks. Supported

on concrete and on reinforced concrete and clad in Dorking facing bricks. Supported on concrete bored piles it will have four storeys topped by a flat concrete roof, with dimensions of 158ft. by 40ft.

The building will have a high degree of insulation for experimenting with voices and for the preduction of counds to test

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Talking of Safety "DRAGEE"

THE unexpected demise of Frederick Wallace - otherwise Fred-the-Wallace — otherwise Fred-the-fringers—was a sad business, and despite his unsavoury reputation the men on the job were naturally upset when they heard the news. Fred, you may remember, received a slight shock while he was unlawfully removing an electric lamp. The tingle made him jerk his hand away so that he lost his balance and fell off the trestle. He did not recover.

not recover.

Fred, I am sorry to say, was a professional wrongdoer, but even so, the circumstances of an accident at work are always tragic, because it involves the sudden end of a man in the course of his working life. There is the business of notifying the next-of-kin; the putting together of his possessions—a box of tools, a raincoat, a handful of documents connected with his job. There are the usual formalities. In Fred's case the rightful possessions amounted to very little; there was no known next-of-kin— and the formalities were soon over.

But the fact remained—and we were all

romalities were soon over.

But the fact remained—and we were all very conscious of this—that the accident had been brought about by a faulty electric fitting. Our investigation quickly located the trouble. The single-pole switch operating the pendant lamp was in the "off" position, but the metal cap of the lamp was "live" because the neutral lead of the circuit went through the switch, while the phase side was connected directly to the metal cap. The man had been using a light alloy trestle standing in water, and this had provided a ready path for a relatively weak current.

In this case, the temporary lighting had been supplied and fitted by an outside wiring contractor. Their foreman readily agreed that the wiring was faulty, but his excuse was typical of the kind we have learnt to expect.

earnt to expect.
"I didn't think it mattered," he said blandly. "After all, it's only a low-voltage supply, isn't it?"

I then quoted a few figures—I had been looking them up during the morning—showing how many people had been fatally

"Dragee," who is a practising safety engineer, would welcome subjects for discussion in this column. All names of persons mentioned in these discussions are entirely fictitious. Questions of law are expressed as the author's personal opinions cnd are not claimed to be authoritative.—Editor.

or seriously injured as the indirect result of electric shock; in many cases with the current at a reduced voltage.

The contractor's foreman shrugged.
"That may be," he said, "but what can people expect if they will go pinching things?"
"Perhaps I should be indirected."

"Perhaps I should remind you," I re-plied, "that stealing no longer carries the death sentence."

The foreman opened his mouth to say something, then shut it again. He walked away. Possibly he had caught sight of my expression. I was angry about the accident because I knew that, morally at least, we were not blameless. We have always been wary of these non-insulated screw cap lamps, and in fact we have an old standing instruction about them—how the wiring and fittings are to be checked and tested before the equipment is first used, and how it is to be inspected at intervals thereafter. Only this time it had been overlooked.

It is not yet generally known that there are four ways of connecting-up a screw cap lamp with a single-pole switch. Only one of those ways is correct and safe. This is where the live lead goes through the is where the live lead goes through the switch to the metal cap, and the neutral side is connected directly to the centrepoint of the lamp. The most dangerous arrangement is the one which I have already described. Another bad example which is deceptive but rather less hazardous, is where the switch is again on the neutral side of the circuit, but the live the neutral side of the circuit, but the live lead goes to the centre-point. This will only cause a shock if the bulb is removed and the hand touches the contact in the socket. Again, this can happen when the switch is "off." The other faulty arrangement is where the live side is wired to the metal cap of the lamp via the switch. The cap will be alive whenever the switch is "on," and any person who touches it will receive a shock.

Modern lamps are robust and safe when

Modern lamps are robust and safe, when they are used with reasonable care. But many accidents have occurred through misusing these indispensable articles.

For instance there was the recent case the maintenance fitter who put a lowvoltage lamp into a socket of a high voltage circuit and pressed the switch. The lamp exploded violently in the man's face. He was severely cut, shocked—and blinded for life. A dreadful penalty for a thoughtless

At a constructional job in London, a

joiner, carrying a ladder through an enclosed space below ground, struck an electric light bulk and shattered the glass. The remains of the bulb were left in place with the filament exposed. There were other lights nearby, and nobody noticed the danger lurking overhead.

Time went by: shuttering was in progress, and one day a man come along carrying some reinforcing rods. One of them touched the live filament . . . there was a vivid blue flash, and the man collapsed. He had paid the penalty for someone else's neglect.

Stories such as these are endless. Perhaps their familiarity blunts, to some extent, the fine edge of pity.

INSTITUTION OF HIGHWAY **ENGINEERS**

The following elections took place at the Institution of Highway Engineers on September 1, 1961:— Members

September 1, 1961:—

Members

O. C. Anderson (deputy borough engineer, Nelson B.C.); T. W. Heslop (senior assistant engineer, Colchester B.C.); W. G. Mahafiyanineer, Colchester B.C.); G. R. Western Nigeria); J. A. Morris (engineer and surveyor, Orrell U.D.C.); F. B. Poynter (assistant county surveyor, West Riding C.C.); G. R. Wells (executive engineer, P.W.D. North Borneo).

Associate Members

D. R. P. Blake (principal assistant engineer, Crawley Dev. Corpn.); E. E. Collier (assistant engineer, Weston-super-Mare B.C.); J. A. Crowther (senior assistant engineer, Dagenham B.C.); S. Downie (senior engineering assistant, Burgh of Ayr); P. C. Emes (deputy borough engineer, Castleford B.C.); C. Gourley (deputy engineer and surveyor, Sowerby Bridge U.D.C.); M. B. Gowers (engineering assistant, Norfolk C.C.); J. Hunt (executive engineer, M.O.W., Nigeria); B. G. Jones (assistant engineer, Gloucestershire C.C.); D. Kingston (irrigation engineering assistant, Lindsey C.C.); D. S. Little (assistant engineer, Lancashire C.C.); D. S. Little (assistant engineer, Lancashire C.C.); L. E. J. Norman (senior experimental officer, Road Research Laboratory); N. Page (principal assistant engineer, Beckenham Corpn.); W. C. Reid (engineering assistant engineer, Beckenham Corpn.); W. C. Reid (engineering assistant engineer, Rochenham Corpn.); W. C. Reid (engineer, Melwyn Garden City Der. Corpn.); M. T. Murlson (assistant engineer, Rochenham Corpn.); W. C. Reid (engineer, Melwyn Garden City Der. Corpn.); M. C. Murlson (assistant engineer, Rochenham Corpn.); W. C. Reid (engineer, Melwyn Garden City Der. Corpn.); W. C. Reid (engineer, Melwyn Garden City Der. Corpn.); W. C. Reid (engineer, Melwyn Garden City Der. Corpn.); W. C. Reid (engineer, Melwyn Garden City Der. Corpn.); W. C. Reid (engineer, Melwyn Garden City Der. Corpn.); W. C. Reid (en

CRAFTMANSHIP IN BUILDING

CRAFTMANSHIP IN BUILDING
A one-day conference on Craftmanship
in Building will be held at this year's
Building Exhibition at Olympia. The conference is to be organised by a representative panel drawn from the professions and
industry, and four Papers—to be given by
selected speakers — will be followed by
general discussion. Under the general
heading of "Craft Training and Technical
Skills in a Developing Economy" the provisional subjects will be: "The Economics
and Trends of Building Techniques and
Production;" "The Changing Pattern of the
Construction Industry in Europe;" "The
Education and Training of the Craft-

Construction Industry in Europe;" "The Education and Training of the Craft-Technician;" "Expanding and Accelerating the Craftman's Range of Activities."

There will only be a limited number of seats available, but anyone interested should write to: — The Conference Secretary, The Building Exhibition, 11 Manchester Square, London, W.1.

DR. VEDER TO ADDRESS **BUILDING ESTIMATORS**

Dr. Christian Veder, of Milan, is to lecture on the Italian I.C.O.S. diaphragm process at this evening's meeting of the

London and Home Counties Region of the Institute of Building Estimators. The meeting will be held in the Bedford Corner Hotel, Bayley Street, W.C.l, at



British engineers and contractors recently inspected road construction work in Switzerland, Germany and Holland

INCREASED OUTPUT OF BRITISH STANDARDS TO MEET NEEDS OF INDUSTRY

Mr. G. Cunliffe elected president of B.S.I.

AT the annual general meeting of the British Standards Institution, Mr. Geoffrey Cunliffe, managing director of Ltd., was elected president of the B.S.I. in succession to Mr. R. E. Huffam. Mr. Cunliffe had earlier been elected chairman of B.S.I.'s General Council.

Council.

Mr. Huffam was elected a deputy-president and Sir Herbert Manzoni (city engineer of Birmingham) and Mr. John Ryan (vice-chairman, Metal Box Co., Ltd.). were re-elected as deputy-presidents.

Mr. A. D. Bonham-Carter, United Kingdom Co-ordinating Director of Unilever, Ltd., succeeds Mr. Cunlife as chairman of St's Finance Committee. Also announ-

B.S.I.'s Finance Committee. Also announced was the appointment of Sir Anthony H. M. Bowlby as chairman of B.S.I.'s Engineering Divisional Council in succession Sir Stanley Rawson, whose term of office had expired.

Another Record Year

The year 1960-61 was another year of record activity and output for B.S.I. For the first time, the number of new and revised British Standards published topped when british and the solution over one for each working day of the year. Sales of British Standards rose to 1,158,000 compared with the previous record figure of 1,097,000 in 1959-60 (about one quarter went overseas). International standards activities made inreasing demands and so did work on test-ing and approval of products. Furthermore, there was a sharp increase in the amount of new work added to B.S.I.'s already large programme.

As Mr. Cunliffe pointed out in presenting the accounts for 1960-61, a large increase in resources was needed if the B.S.I. was to in resources was needed if the B.S.I. was to meet efficiently the demands made upon it. During the presentation of the annual report it was said that if the increase was not forthcoming, B.S.I. might well have to introduce a much more rigorous system of priorities, possibly with special emphasis on the needs of the major exporting industries

increasing scale of international The Britain playing a full part in it was stressed. It was likely that activity in connection with unification of standards in Western Europe would expand, particularly if the United Kingdom entered the Common Market.

Stringent Safety Standards

In the past year there had been a growing interest in, and demand for, stringent safety standards, he continued. This was evident in the Molony Committee's interim report, followed by the Consumer Protection Bill. The establishment of the British Electrical Approvals Board also reflected an increased awareness on the part of an increased awareness on the part of manufacturers of the need, in their own interest and the consumer's, to discourage in every way possible the sale of unsafe appliances.

B.S.I. had endeavoured to secure the most authoritative advice on domestic safety standards by the setting up of an Advisory Committee on Personal Safety. Persentative of the main national bodies concerned with accident prevention. Alteady this committee had done very useful work in analysing extrictice and records. work in analysing statistics and records pointing to the need for new and improved standards.

Application of Standards

Another feature of the past year had been B.S.I.'s growing efforts to help in the efficient application of standards in individual firms. B.S.I.'s main tack of preparing standards could only be carried out effectively if B.S.I. was in close touch

with the standards departments of manufacturing firms and large purchasers. The establishment of a "Register of Standards establishment of a "Register of Standards Associates" had provided a useful link and had also made easier the exchange of information and experience among those responsible for the standards policy and procedures in individual firms.

Divisional Reports

Picking out points of special interest om the reports of B.S.I.'s Divisional ouncils, the speaker referred to the from the Councils, following:

In the Engineering Division, three new Industry Standards Committees had been set up, on nuclear energy, data processing and surface coatings. The new uses to set up, on nucleat energy, data processing and surface coatings. The new uses to which materials were being put had called for fresh study of the treatment on surfaces and similarly the stresses placed on materials by recent designs had called for a re-assessment notably of the materials used for pressure vessel fabrication.

The Building Division had added considerably to its programme both in the revision of existing standards and in underrevision of existing standards and in under-taking new projects such as those for sprayed asbestos insulation, prefabricated plaster panels, cork floor tiles and other cork products. There was unfortunately no agreement in the building industry on the module to be adopted for dimensional co-ordination but some progress was being made on tolerances and fits for building which might ultimately help the solution of the module problem.

Codes of Practice

Among the interesting codes being developed under the Council for Codes of Practice were those for precautions against fire in all types of buildings, for protection of steel against corrosion, for composite construction in steel and reinforced concrete and for the earthing of all types of electrical equipment. electrical equipment.

£1M. LINCOLN CIVIC CENTRE **Design Competition Result**

TWO young London architects, Miss Merlyn Evans and Mr. Denis Gailey, have won the competition for the design of the new civic centre at Lincoln.

Their design for the £1m. centre is described by the judges as "having outstanding merit," and wins for them the first prize of £4,000. Some 76 designs were considered.

Competitors were asked to provide a large and a small assembly hall, municipal offices, council chamber and civic suite, magistrates' and county courts and police headquarters. They were also asked to plan a number of shops along the western side of the site, in connection with a proposal to convert Sincil Street into a pedestrian precinct.

The winning plan raises the buildings above a paved platform which has carparking beneath and which provides pedestrian communication between the buildings at various levels.

LIGHTHOUSE CLUB IN HOLLAND

An inaugural meeting of the Dutch branch of the Lighthouse Club is to be held in The Hague tomorrow evening (Friday). Colonel A. C. Newman, V.C., president of the club and Edward Ward, hon. secretary will be addressing the meeting. hon. se meeting.

Considerable interest in the Lighthouse Club has been shown in Holland and the inaugural meeting is expected to draw a large attendance from the Dutch contracting world.

Benevolent Fund

Thanks to the generosity of individuals and firms in the construction industry the club's benevolent fund is now in a position to give modest aid to those in the industry who have been stricken by misfortune. Readers who know of any deserving cases should communicate with Arthur J. Staples, 176 Malden Road, Cheam, Surrey.

SWINDON FACTORY DESIGN ALLOWS FOR FUTURE **EXTENSIONS**

ON the Rodbourne Industrial Estate, Swindon, Richard Costain (Construction), Ltd., are now erecting a £400,000 factory and office block for Square "D" Ltd., the U.K. subsidiary of a leading American switchgear manufacturing firm. The factory is 600ft. long, clad in brick, asbestos and patent glazing; the roof is divided into three equal spans. External stanchions allow for future extensions.

Ancillary production units include a metal finishing shop, paint store and compressor

The 160ft, long three-storey office block

is steel framed with precast concrete floors and curtain wall elevations.

Architect is H. Stanley Smith, A.R.I.B.A., and E. J. Cook and Company (Engineers), Ltd., are the structural consultants.



Model of the completed factory, including extensions

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International Construction

COSTAINS DEVELOP AFRICAN HOME-OWNERSHIP SCHEME

RICHARD COSTAIN (AFRICA), LTD.,

RICHARD COSTAIN (AFRICA), LTD., are developing a township near Lusaka, Northern Rhodesia, for Africans who wish to buy their own houses on reasonable terms.

A subsidiary of the British South Africa Company Group has made available £100,000 to finance 90 per cent. mortgage loans at 6 per cent. interest, repayable over 25 years. The Northern Rhodesia Government will guarantee the loans in terms of existing practice for guaranteed building society mortgages.

Known as the Lilanda Township, the housing estate lies just outside the Lusaka city boundary to the north-west and adjoins Matero African Township. Its total area is 620 acres, of which 432 acres will be used for housing, including 190 acres of green belt parkland.

Costains plan to build 80 low density houses on ½ acre sites, 180 medium density houses on 1/5 acre sites and 740 high density houses on ½ acre sites. All houses have been planned so that they may be

All houses density houses on \(\frac{1}{6} \) acre sites. All houses have been planned so that they may be extended by adding bed or living-rooms as the owners' economic standards improve. Purchasers have a choice of a dozen basic house types with a wide variety of alternative finishes. All houses have have heap set aside for shops.

have indoor sanitation.

Areas have been set aside for shops, filling stations, a residential hotel, churches, schools, a sports arena, a beerhall on the lines of an English pub, light industrial buildings and a market place.

Part of the services, including some roads and sewerage reticulation, have already been installed, and Costains are building one or two sample show houses of each density type, of varying prices up to £1,500. to £1,500.

MERSEY BRIDGE DEMOLITION TO COST £150,000

Widnes B.C. have been recommended to accept the tender of Dorman Long, Ltd., at £150,000, for the demolition of the old transporter bridge over the River Mersey,

transporter bridge over the River Mersey, between Widnes and Runcorn.

The tender is £30,000 more than it cost to build the bridge in 1905. Demolition will take about 18 months and work is expected to begin in November. Dorman Long were the contractors for the new £3 million Runcorn/Widnes bridge.

The consulting engineers, Mott, Hay and Anderson, have reported to the council that the Manchester Ship Canal Company would have to be safeguarded against loss of use of their canal over which the transporter bridge reaches. It is understood that they would claim £300 an hour for any stoppages caused by the demolition of the bridge.

ANOTHER HONG KONG HOUSING ESTATE

WORK will begin later this year on the

WORK will begin later this year on the first Government low-cost housing estate to be constructed in the industrial new town of Kwun Tong in Hong Kong.

The new estate, consisting of seven blocks each of seven storeys with accommodation for between 5,000 and 6,000 people, is expected to be completed towards the end of next year. Site formation is nearly finished and piling will start shortly. The site covers an area of about 187,000 sq. ft.

Each block in the estate will have single

187,000 sq. ft.

Each block in the estate will have single living units placed on each side of a central corridor. The rooms will have a private balcony, and communal cooking and toilet facilities will be provided. The estate will also include facilities for parking of vehicles, an internal service road and play

Design of the estate has been the responsibility of J. R. Firth, A.R.I.B.A., architect to the Hong Kong Housing Authority. The work will be carried out by local labour.

£A2.5M, WORKS PROGRAMME FOR R.A.A.F.

Nearly £A2.5m. is to be spent in the next 12 months on new works programmes for the Royal Australian Air Force. The biggest expenditures will be at bases in Victoria, N.S.W. and the Northern

Victoria, N.S.W. and the Northern Territory.

The Minister of Air, Senator Wade, says more than £A230,000 will be spent on the construction of airmen's married quarters at Darwin, and a further £A110,000 on improvements to the mess facilities and rations store. In Victoria, £A190,000 is allocated for a science block at the Air Force College at Point Cook.

The N.S.W. works programme includes £A75,000 for a signals operations building for the Air Force Operational Command.

for the Air Force Operational Command

\$23M. POWER STATION FOR INDIA

A \$23 million contract for the first large central power station to be built in the newly formed state of Gujarat, India, has

newly formed state of Gujarat, India, has been awarded to the International General Electric Company, the marketing subsidiary of U.S. General Electric.

Under their contract with the India Supply Mission of the Government of India, I.G.E. will supply the Gujarat Electricity Board with four 63,500-kW. turbine-generator units for a thermal station at Dhuvaran, at the head of the Gulf of Cambay north of Bombay. I.G.E. will also provide associated mechanical and electrical equipment and design engineering services. gineering services.

CONSTRUCTION REPORT FROM **SUDAN**

TENDERS have been invited by the Government of Sudan for the construction of the road between Khartoum and Wadi Medani which will be 174 kilometres long report Barclays Bank D.C.O. from Khartoum. The work will be finance under the American Aid Programme.

The Minister of Local Government has invited tenders for the design and construction of a reinforced concrete or stee roadway across the River Nile between

struction of a reinforced concrete or stell roadway across the River Nile between Comdurman and Shambat. Another project is the widening of the present bridge over the White Nile between Khartoum and Omdurman with the addition of two roadways 2,012ft. long and 13ft. wide carried on steel cantilevers.

The Italian contractors, Torno and Combon are to construct the Khashm E Girba Dam on the Atbara River in the Eastern Sudan, are reported by the Bank to be well advanced in their preliminary digging work preparatory to the laying of the dam foundations on the western bank. A bridge has been constructed linking the two banks and facilitating the transport of materials and personnel.

PROPOSED CHOWILLA DAM

PROPOSED CHOWILLA DAM

The Premier of South Australia, Sir Thomas Playford, is seeking a conference with the Premiers of Victoria and N.S.W.

on the construction of Australia's biggest water storage dam, which would be at the junction of the three states. The dam, to cost £13m., would take its water from the Murray River and guarantee South Australia against shortages of water for irrigation and domestic use.

The proposed dam site is at Chowilla, South Australia, about 12 miles downstream from the N.S.W. border. Its estimated capacity is nearly 5,000,000-acre ft., with a surface area 60 miles long and seven miles wide.

The River Murray Commission has reported favourably on the project. It now requires the consent of Victoria and N.S.W.

CEMENT IMPORTS TO LIBYA

Imports of timber, cement and building materials continue to arrive in Libya on a heavy scale as building programmes in Benghazi and Beida progress. A Barclays Bank D.C.O. report states that the bulk of cement imports in the past have been from Greece and Yugoslavia but recent arrivals include a shipment of Russian cement and a trial order has recently been placed for Bulgarian cement.

AMERICAN TEST FOR SHEFFIELD STEEL

A successful fatigue test has been run at Lehigh University Pennsylvania, on a 1½in. Macalloy bar with rolled thread anchorages. The test bar, supplied from Sheffield, was from a normal cast of stel and had rolled threads each end. A stress range of 85,000 p.s.i, at 100,000 p.s.i, was applied through the rolled thread anchorages to the bar for 3,000,000 cycles without failure. This compares with the recompared prestressing force after losses of mended prestressing force after losses of 88,000 p.s.i.

The assembly was then taken out of the fatigue testing machine and tested to destruction when it gave a strength of struction when it gave a strength of 143,000 pounds. The specified ultimate stress for Macalloy steel is 143,000 to

161,000 p.s.i.

MASSEY-FERGUSON SALES **INCREASE**

For the nine months ended July 31 Massey-Ferguson reports world-wide sales up 3 per cent. to \$362m. President A. A. Thornbrough said the increase was achieved despite the adverse effect of drought conditions on the important market for combines in the United States and Canada. and Canada.

EGYPTIAN COMPANY ORDER IH MACHINES

AS reported briefly last week, International Harvester Company of Great Britain, Ltd., have received an order from Egypt for heavy con-struction equipment worth £500,000.

The contract was placed by The Tractor and Engineering Co., Cairo, and Mr. Hussein Co., Cairo, and Mr. Russell.
M. Zaki, secretary general of
the firm, is seen here (left)
handing the order to Mr. Frymire, director of sales for IH.

Included in the order are 52 124-h.p. BTD-20 crawler tractors, 26 B-20G-3 Bullgrader attachments, 19 10/14 Sterling scrapers, seven 8/11 Sterling scrapers, and nine 50-h.p. BTD-6 crawlers. The equipment will be used on a land reclamation project. reclamation project.



TWIN TEMPORARY FOOTWALKS ON THE CONTRACTORS DESIGN AND FORTH ROAD BRIDGE

VITAL step in the construction of A the Forth Road Bridge is the provision of twin temporary footwalks to enable the main cables to be spun and suspenders for the deck sections to be

fitted.

The footwalks are floored with Weldmesh panels specially produced by the Weldmesh Department of The B.R.C. Engineering Co., Stafford, The floor panels are 9ft. 2in, wide x 10ft. long, and 10ft. 6in. long of 2in. x 3in. centre to centre mesh with 6 s.w.g. wires at 2in. centres and 4 s.w.g. wires at 3in. centres. The 3ft 6in. side panels are made

wires at 310. centres. The 3tt, 6in. side panels are made up of 6in. x 3in. Weldmesh x 10 s.w.g. galvanised wire. These are secured to the floor panels by means of a series of 9in, long helicals, each of 14in. diameter x 1/2 in. pitch made from 8 s.w.g. wire.

from 8 s.w.g. wire.

Each footwalk is supported by eight multi-strand cables of lin. diameter, each cable being made up of 19 separate .16in. diameter wires. The side panels are secured to hand ropes 3ft. 6in. above the footwalk. Seven cross bridges of cross-braced tubular steel section connect the footwalks. ion connect the footwalks.

Some stretches of the foot-Some stretches of the foot-walks will have an incline of 23 degrees, and to assist the men working on the main cables, timber stringers of 2 jin. x lin. section will be secured to the mesh at inter-vale of 1ft fin on the steam. vals of 1ft. 6in. on the steeper sections and at 2ft. 6in. and 5ft, centres elsewhere. The timber stringers will also pretimber stringers will also pre-vent friction between the wires forming the main cables and the footwalk. "U" bolts are used to secure the mesh to the supporting cables, and later, holes will be cut in the floor-ing through which the suspenders for the deck sections will be passed.

The total span of these twin footwalks will be more than 13,000ft.—nearly 2½ miles in length.

miles in length.

The Forth Road Bridge is being built by The A.C.D. Bridge Co., a consortium formed by Sir William Arrol and Co., Ltd.; The Cleveland Bridge and Engineering Co., Ltd.; and Dorman Long (Bridge and Engineering), Ltd. The consulting engineers are Mott, Hay and Anderson, in association with Freeman, Fox and association Partners.



Weldmesh spanning the Forth

ERECTION OF REFRACTORY PLANT AT BRIERLEY HILL, STAFFS.

AT present under construction at Brierley Hill, Staffs. for the Price-Pearson Refractories Group, is a new plant for the manufacture of high

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plant for the manufacture of figure quality refractory goods.

The building generally is a single-storey steel framed structure 780ft. x 160ft. on mass concrete foundations, but at one end in the raw material preparation and hopper tower building, reinforced concrete work has been used in the formation of a base-material where the arm material is stored. ment area where the raw material is stored and partly processed.

The basement perimeter walls which are of heights varying from 14ft. to 26ft. are of the counterfort type, and on two sides of the area the counterforts have been placed me area the counterforts have been placed internally and take the form of partition walls to the storage bunkers. The bunkers are then fed by tipping lorries from an lin, thick reinforced concrete road slab, manning between these partitions inside the building. Counterforts and the storage bunker partitions generally have been maked at 12ft, 6in. centres to suit the Positions of the structural steel stanchions, which are directly over the counterforts.

Bored Pilos

Bored Piles

Due to the presence of a layer of weak clay of varying depth, bored piles have ben introduced over part of the basement area where the clay occurs, in order to avoid excessive excavation and concrete. The remainder of the walls and base slab

are founded on the natural sandy clay. are founded on the natural sandy clay.

The hopper building is a tall narrow light steel framed building, 55ft. x 27ft. x 120ft. high, and is founded on one of the 55ft. sides on the basement wall counterforts, and on the opposite side on groups of piles under the main stanchions. Pile caps and basement retaining wall are all interconnected by horizontal tie beams for tability.

In the main building a tunnel kiln 450ft. long is to be employed in the manufacture of the bricks. The kiln itself is of brick construction on a reinforced concrete foundation. The latter takes the form of a trough section about 6ft. deep below ground floor level, with cantilever wing slabs at ground level, the overall width of which varies with the width of the kiln.

Consultant and Contractors

The consulting engineer for the plant is F. W. Eske, of London, and the civil engineering work is being carried out by R. G. Horton (Engineers), Ltd., of Brierley R. G. Horton (Engineers), Ltd., of Brierley Hill. The structural steel work is by Wilfred Robbins, Ltd., for the main building, and by Allott Bros. and Leigh, Rotherham, for the hopper tower and raw material preparation building. Piling is by The Cementation Co., Ltd., and the reinforced concrete work has been designed by the British Reinforced Concrete Engineering Co., Ltd., Stafford, who are also supplying the reinforcement.

BUILD FACTORY

NEW factory and offices, officially A opened recently at Welwyn for Avdel, Ltd., have been designed and erected by Richard Costain (Construction). Ltd.

tion), Ltd.

The factory enables the whole production to be under one roof and gives room for further expansion. Steel-framed and clad in brick, aluminium and patent glazing, the 360ft. by 214ft. building was completed in less than 10 months.

The floor is 6in, thick concrete laid of the steel of the st

The floor is 6in, thick concrete laid on ground beams with a granolithic finish. The roofing to the main factory area consists of a series of north-lights and sloping roofs. Siporex slabs covered with spar chippings and felt form the roof of an annexe which houses cloakrooms and changing rooms.

an annexe which houses cloakrooms and changing rooms, a canteen to accommodate 450 people, a kitchen, switchroom, a laboratory and a first-aid room.

The whole factory area is heated by suspended heaters. Services throughout the building are extensive, including a sprinkler system and compressed air, lubrication and fuel lines. Tanks for lubrication and fuel oil and water are contained in a rower.

lubrication and fuel oil and water are contained in a tower.

An extension is planned to the east elevation. At the western end of the factory area stands a two-storey office block of load-bearing brickwork and concrete beams. The floors are Stahlton and the building is insulated with acoustic tiling. Provision has also been made for a third storey to be added at a later date.

C.P.A. GOLFING SOCIETY

A highly successful meeting was held at the Wentworth Club, Virginia Water, on September 19, under the captaincy of Mr. J. E. Brown (Bowmaker (Plant), Ltd.). Thirty-two members and guests took part and both the morning and afternoon competitions were played under ideal conditions.

petitions were played under ideal conditions.

The morning round against Bogey was played on the East Course and was also the occasion for the members' second annual competition for the President's Cup presented by Mr. Harold Spragg, C.B.E. Mr. A. Miller (W. R. Ingram, Ltd.) was successful in reversing the result of the 1960 competition by winning the cup from the holder Mr. W. W. Arkinson. Both members again returned a similar score (all square) but on this occasion adjudication on the last six holes gave the cup to Mr. Miller. As Mr. Arkinson was also successful in the afternoon competition the morning prize was awarded under the rules to Mr. R. J. Vine (International Harvester Co. of Great Britain) 3-down with Mr. E. K. Hughes (Geo. Elliott and Co., Ltd.) 4-down as Runner-up. The visitors' prize was won by Mr. L. Haynes (Balfour Beatty and Co., Ltd.) 3-down (after adjudication) with Mr. W. Hart (Vigzol Oil Co., Ltd.) as runner-up.

The afternoon competition on the West Course was played as a greensome under Stapleford Rules with Mr. W. W. Arkinson.

The afternoon competition on the West Course was played as a greensome under Stapleford Rules with Mr. W. W. Atkinson (Caffin and Co., Ltd.) and Mr. D. M. Beddows (Bowmaker (Plant), Ltd.) as winners with a score of 37 points. Mr. G. Jenkins (Bowmaker (Plant), Ltd.) and Mr. K. Goodacre (Amalgamated Road Stone Corporation) were runners-up with 34 points—after adjudication against two other pairs.

Obituary

It is with regret that The Contract Journal records the death of the following:
Mr. F. E. Boardman, joint managing director of Deacon and Boardman, Ltd., builders, Walsall. He was a former president of the Walsall Master Builders Association and the Walsall Building Guild.
Mr. B. I. Smith and 42

Mr. B. L. Smith, aged 42, purchasing director, of Burn Brothers (London) Ltd. He had been with the company for the past 25 years, and was appointed a director over 10 years ago.

FOR THE DIARY

Oct. 5

Convention on "Planning for Traffic" arranged by the Institution of Municipal Engineers, London.

Meeting of the Institution of Structural Engineers, London. Presidential Address,

Meeting of the London branch of the Contractors' Mechanical Plant Engineers, Hendon Way Hotel, Hendon Way, N.W.4. 7.30 p.m.

Oct. 6

Institution of Highway Engineers at 11 Upper Belgrave Street, London, S.W.I. "Road Accidents—Remedy or Revenge", by J. J. Leeming, Dorset county surveyor.

Annual conference of the Institute of Quarrying, Palace Hotel, Torquay. Oct, 9-13.

Meeting of the Yorkshire branch of the Contractors' Mechanical Plant Engineers, Ladies' Night,

Oct. 10

Annual dinner of the Contractors' I Association, Dorchester Hotel, London.

Association, Dorchester Hotel, London.

Meeting of Manchester branch of the Institution of Plant Engineers, Manchester Literary and Philosophical Society's Rooms, George Street, 7.15 p.m. "The Trends and Progress of Nuclear Power Station Design." by W. G. Busbridge, United Kingdom Atomic Energy Authority.

Institution of Civil Engineers, Great George Street, London, S.W.1. Informal discussion on "Site Organisation", introduced by R. S. Read.

Meeting of the Glasgow branch of the Contractors' Mechanical Plant Engineers, More's Hotel, Glasgow.

Glasgow Branch of the Contractors' Mechanical Plant Engineers. Meeting at More's Hotel, India Street. Speaker: Super-intendent Rae of the Glasgow Police.

Institution of Civil Engineers, Great George Street, London, S.W.I. "Some Developments in the Activated Sludge Process", by J. McNicholas.

Oct. 17

Institution of Civil Engineers, Great George Street, London, S.W.I. "The Narrows Bridge—Perth, Western Australia", by J. W. Baxter, E. M. Birkett and E. W. H. Gifford. Meeting of the Western branch of the Con-tractors Mechanical Plant Engineers, Royal Hotel, College Green, Bristol 7.30 p.m.

Oct. 18

Forty-sixth International Motor Exhibition, Earls Court, London, Oct. 18-28,

Meeting of the Reinforced Concrete Association at R.I.B.A., Portland Place, W.I. 6 p.m. "Tropical Architecture: The Development of Reinforced Concrete in West Africa," by E. Maxwell Fry, C.B.E., F.R.I.B.A.

Institution of Hotel, Annual di Mechanical dinner of the Institut

Institution of Civil Engineers, Great George Street, London, S.W.1. Informal discussion on "Sewage Disposal at Coastal Towns", introduced by W. P. Haldane.

Autumn meeting of the Scottish Branch of the Institution of Municipal Engineers at Stirling. Oct. 20-21.

Meeting of the Midlands branch of the Contractors' Mechanical Plant Engineers, Wilson Arms, Knowle, 7.30 p.m. "Safety Precautions on Building Contracts," by P. H. Bott, C. Bryant and Son, Ltd. Annual dinner of the Yorkshire Federation of Building Trades Employers, Queens Hotel, Leeds.

Autumn general meeting of the Southern Counties Federation of Building Trades Employers, Connaught Rooms, London. 10.30 a.m.

Annual dinner of the Merseyside and North Wales branch of the Institution of Plant Engineers, The Blossoms, Chester.

Institution of Civil Engineers, Great George Street, London, S.W.1. "New Premises for the North Thames Gas Board, Fulham", by A. J. Leggatt and J. Bobrowski.

Oct. 25

Meeting of the Institution of Mechanical Engineers, 1 Birdcage Walk, Westminster, London, S.W.1. Presidential Address.

National Conference of the Town and Country Planning Association, Church House. Westminster. "Inquiry into Planning." Oct. 25-26.

Institution of Civil Engineers, Great George Street, London, S.W.I. Traffic Engineering Group discussion on "Practical Traffic Surveys", introduced by B. L. Allen.

Meeting of North West branch of the Con-tractors Mechanical Plant Engineers. Visit to Shell Refinery, Stanlow, Cheshire.

Meeting of the Birmingham branch of the Institution of Plant Engineers, Imperial Hotel, Birmingham, 7.30 p.m., "High Pressure Hot Water Heating," by P. Marshall and K. J. Luntley.

Annual dinner of the British Road Tar Association, Grosvenor House, London. Meeting of the London branch of the Institution of Plant Engineers, Royal Society of Arts, 7. p.m. "Tower Cranes—Their by in Multi-storey Construction," by A. G.

Institution of Civil Engineers, Great George Street, London, S.W.I. "Western Avenue, Lagos: The Design and Construction of a Soil Cement Pavement", by C. M. Johnston,

Nov. 1

Annual dinner and dance of the Federation of Registered House-Builders at the Mayfair Hotel, London, W.1.

Meeting of North West branch of the Contractors Mechanical Plant Engineers, "Landfall", Canning Dock, Liverpool, 9 p.m. Film show and talk "Lubricants".

Meeting of the London branch of the Contractors' Mechanical Plant Engineers, Hendon Way Hotel, Hendon Way, N.W.4. 7.30 p.m.

The House-Builders Conference at the Connaught Rooms, London, W.C.2. Institution of Civil Engineers, Great George Street, London, S.W.l. Informal discussion on "Foundation Design and Construction", introduced by D. J. Henkel.

Annual dinner of Mid-Southern branch of the Contractors' Mechanical Plant Engineers, Red Lion Hotel, Henley on Thames, Red Lic 7.30 p.m.

Institution of Civil Engineers, Great George Street, London, S.W.I. Presidential address by Sir George McNaughton.

Meeting of the Manchester and District branch of the Contractors Mechanical Plant Engineers, Woodcourt Hotel, Brooklands Road, Sale. 7.30 p.m.

Meeting of the Reinforced Concrete Association at Royal Society of Arts, John Adam Street, London. W.C.2. 6 p.m. "Shrinkage and Creep in Concrete," by A. M. Neville, M.C., M.Sc.(Eng.).

Nov. 10

Scottish Motor Exhibition, Kelvin Hall, Glasgow, Nov. 10-18. Dinner dance of the Yorkshire branch of the Contractor's Mechanical Plant Engineers.

Nov. 13

Factory Equipment, Heating, Ventilation and Thermal Insulation Exhibition, Earls Court, London, Nov. 13-18.
Annual dinner of the Lighthouse Club, Grosvenor House, London,

Building Exhibition, Olympia, London. Nov. 15-29.

Annual banquet of the National Federation of Roofing Contractors, Grosvenor House,

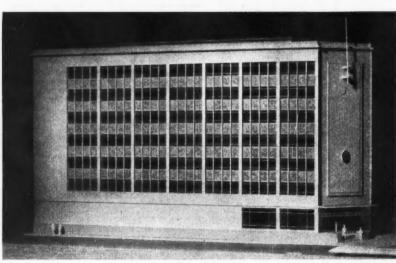
Annual general meeting of the National Federation of Roofing Contractors, London.

Meeting of the Midlands branch of the Contractor's Mechanical Plant Engineers. Wilson Arms, Knowle, 7.30 p.m. Film and Lecture, by R. Bigwood, British Lift Slab. Ltd.

Nov. 25

Annual dinner of London branch of the Institution of Plant Engineers, Waldorf Hotel, London,

Mid-Southern branch of the Contractors' Mechanical Plant Engineers, Brains Trust. Grosvenor Hotel, Caversham, Reading.



This multi-storey block of offices is to be built at York as the new headquarters of the Yorkshire Insurance Co., Ltd. It will have a frontage of 183ft. and will rise 100ft. above pavement level, providing a floor area of 100,000 so. ft. The facing will be in Derbyshire stone, with contrasting panels separating the window line at each floor level. Kitson, Parish, Ledgard and Pyman, of Leeds, are the architects for the building. Site work is expected to commence later this year



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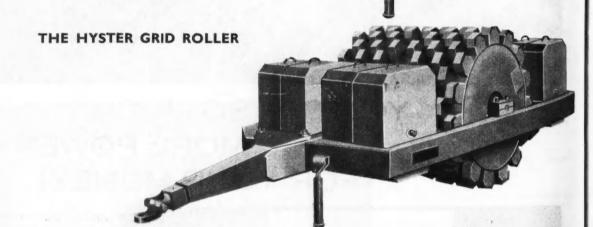
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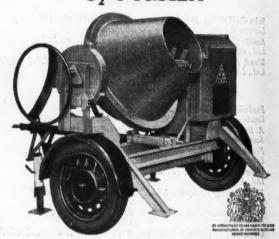




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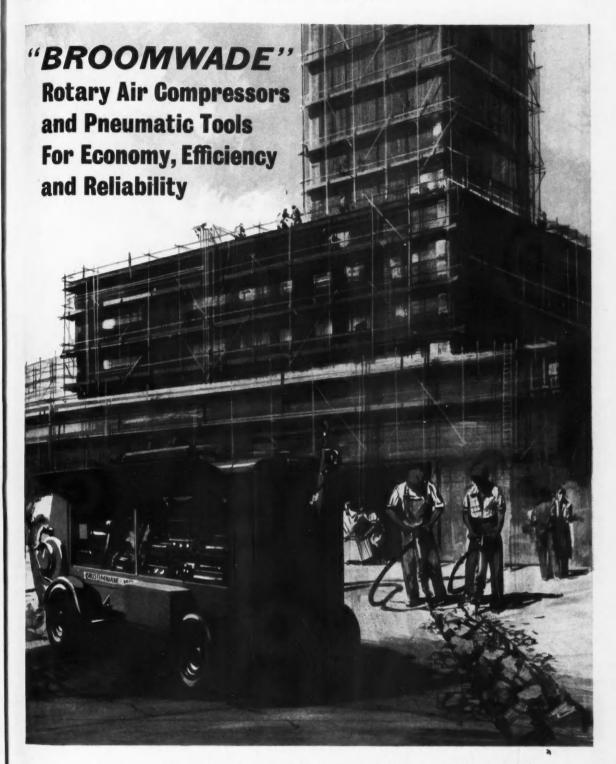
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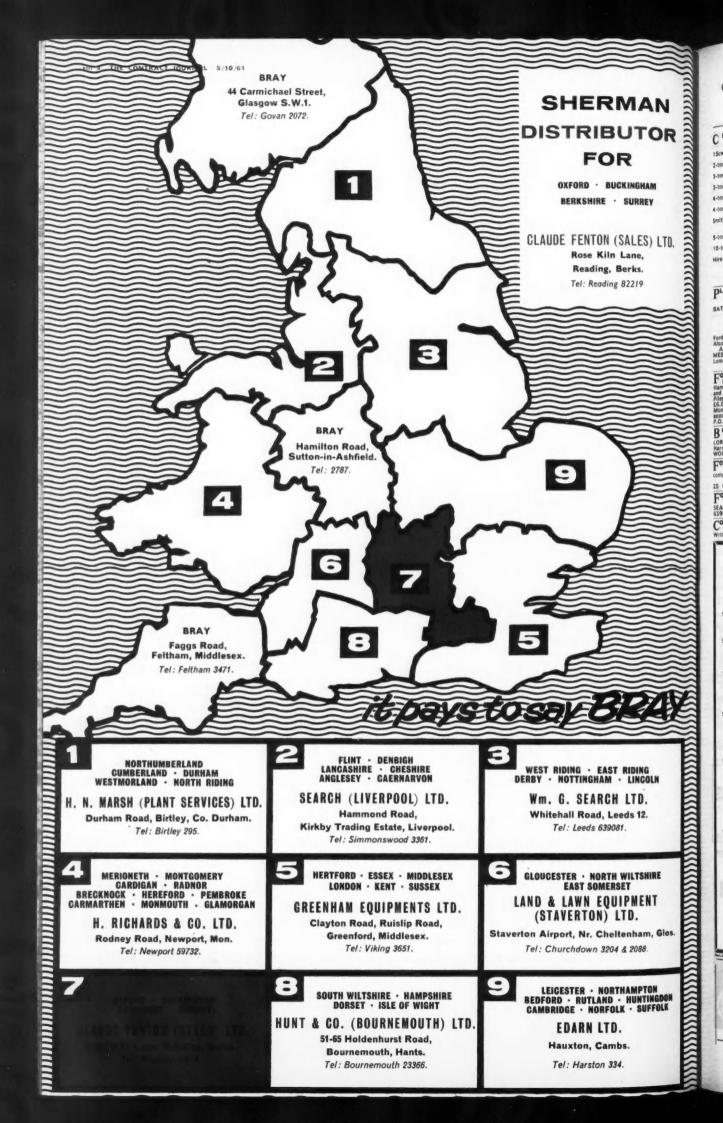


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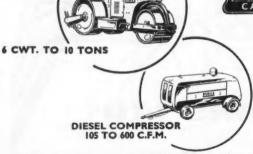


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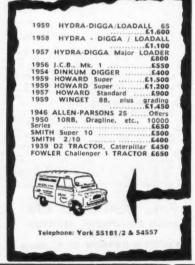


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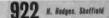


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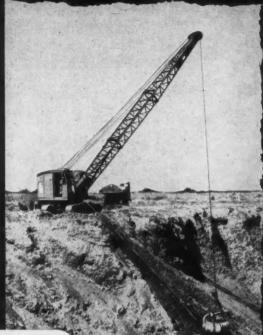


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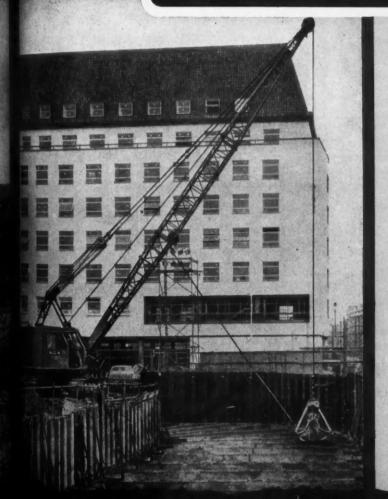
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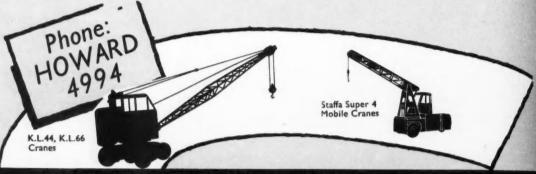
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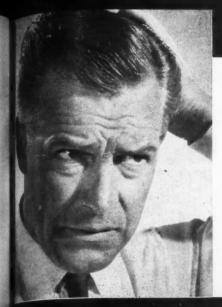


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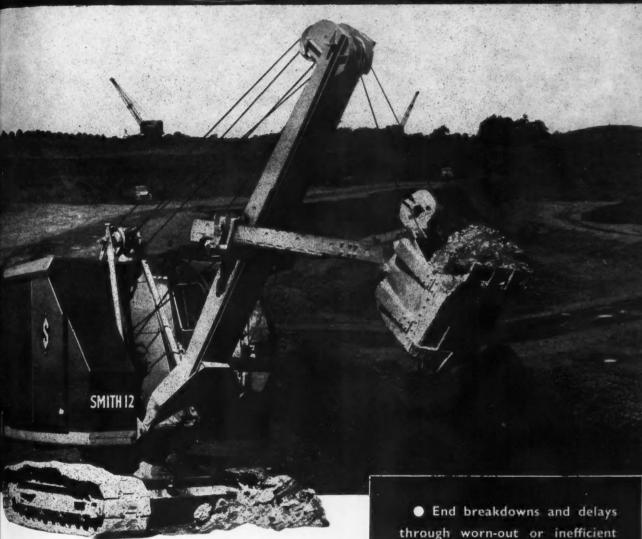
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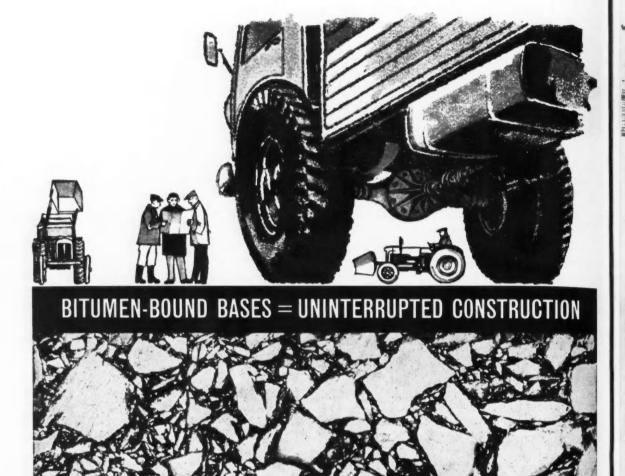
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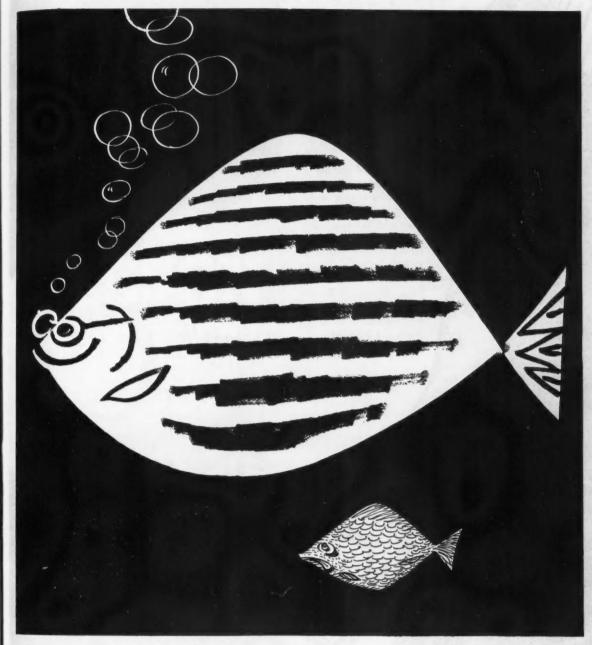
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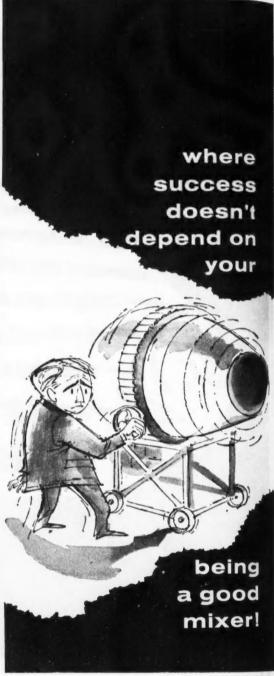
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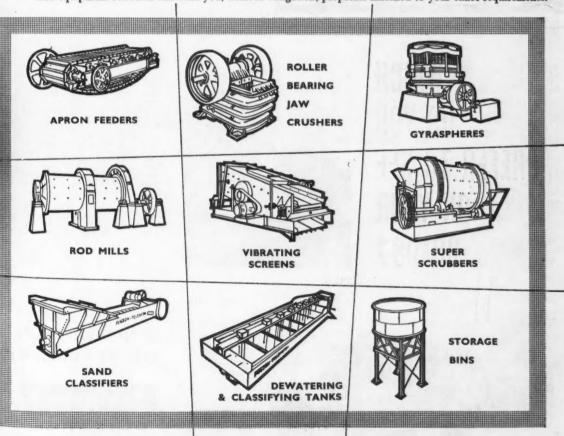


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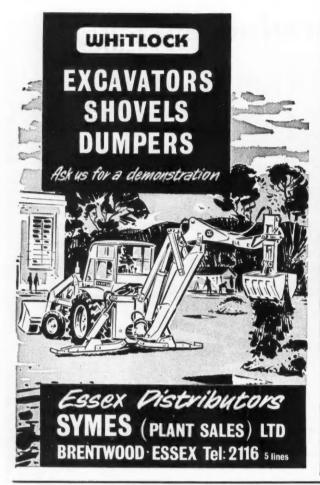
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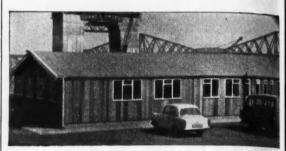
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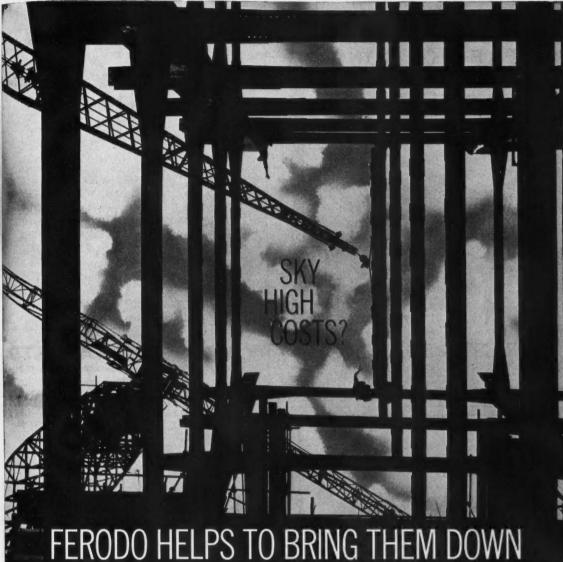
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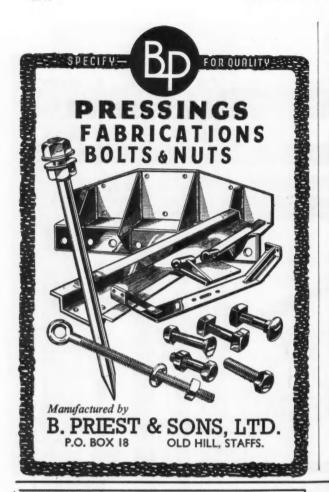
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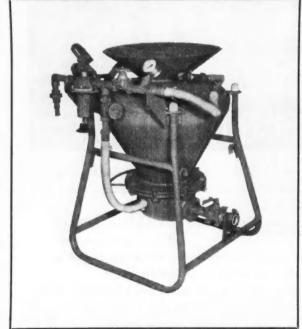
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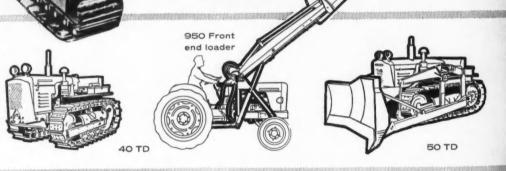
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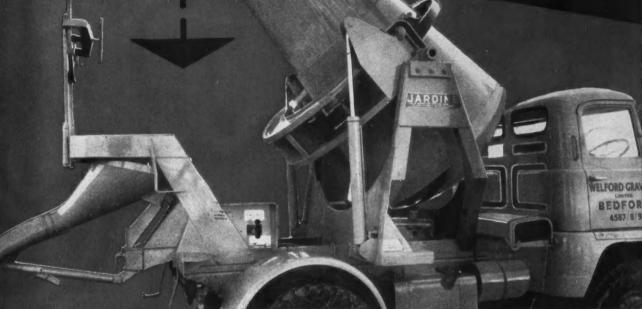
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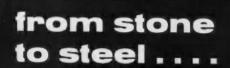
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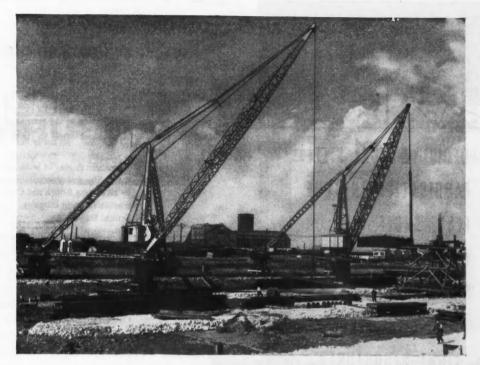
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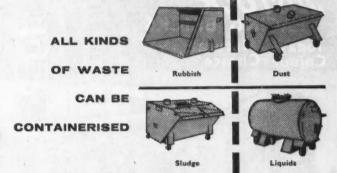
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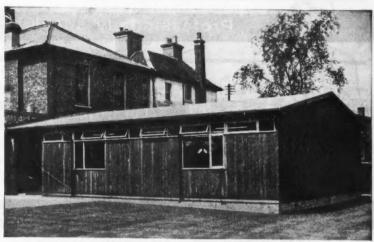
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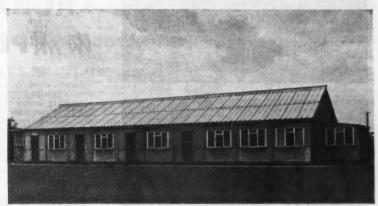
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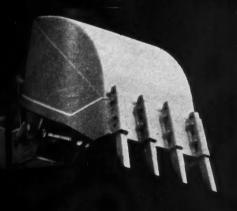
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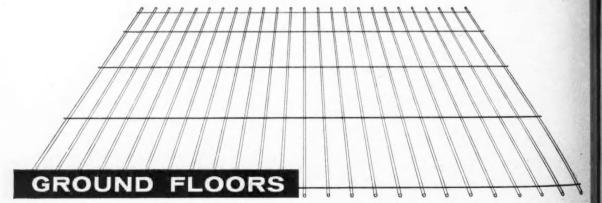
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